

RF Test Data for Bluetooth (BR+EDR) (Conducted Measurements)

General Description of EUT	
Product Name:	tablet computer
Test Model:	AYANEO KUN
Sample ID:	202307-0208-4-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 11.55V
Test Engineer:	Li Ying Jing
Note: For a more detailed features description, please refer to the report TBR-C-202307-0208-4 The report only show the worst case data.	

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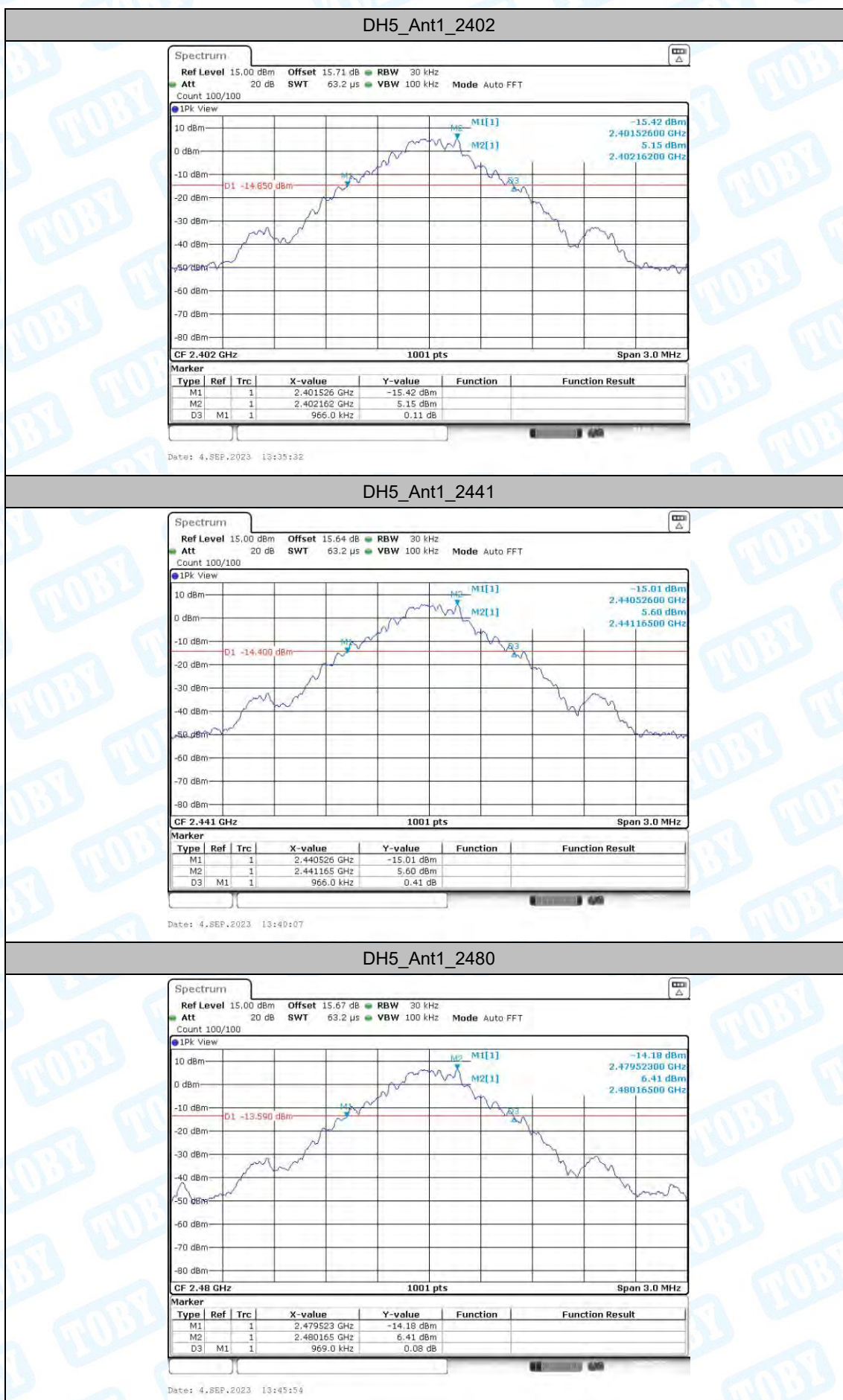
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1. 20dB Emission Bandwidth

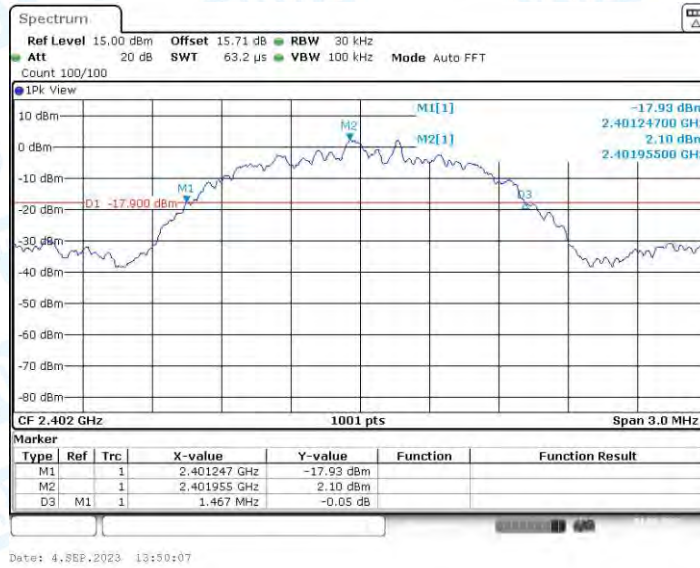
1.1. Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.97	---	---
		2441	0.97	---	---
		2480	0.97	---	---
2DH5	Ant1	2402	1.47	---	---
		2441	1.47	---	---
		2480	1.47	---	---
3DH5	Ant1	2402	1.47	---	---
		2441	1.48	---	---
		2480	1.48	---	---

1.2. Test Graphs



2DH5_Ant1_2402



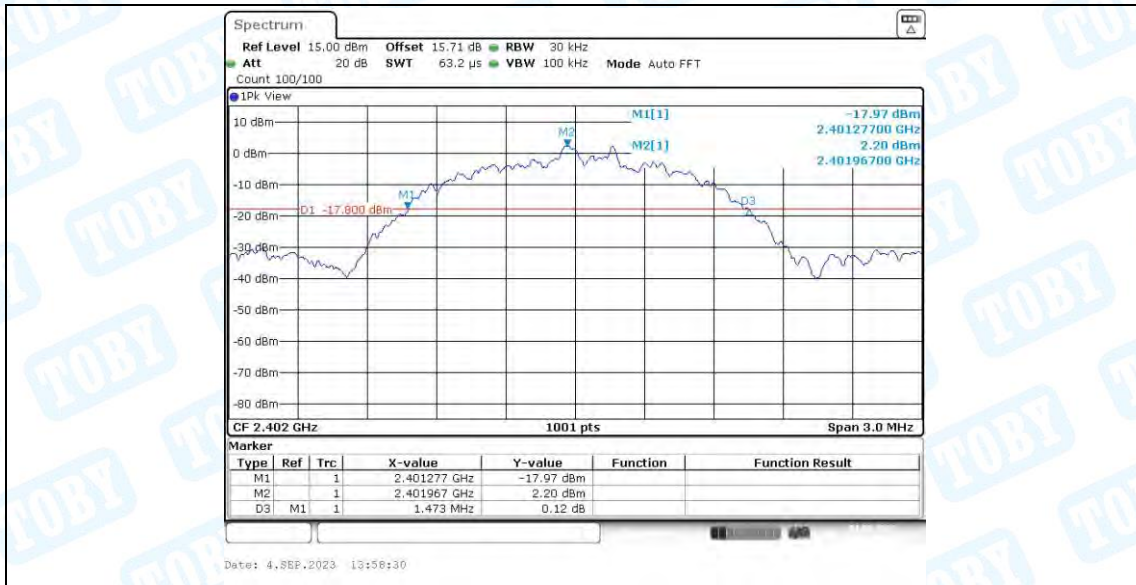
2DH5_Ant1_2441



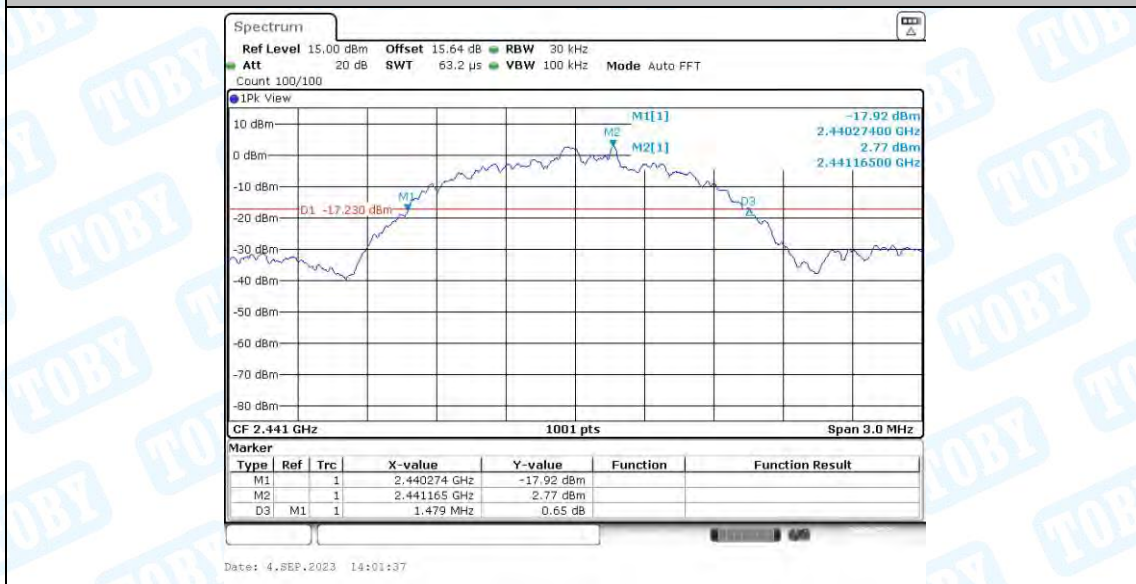
2DH5_Ant1_2480



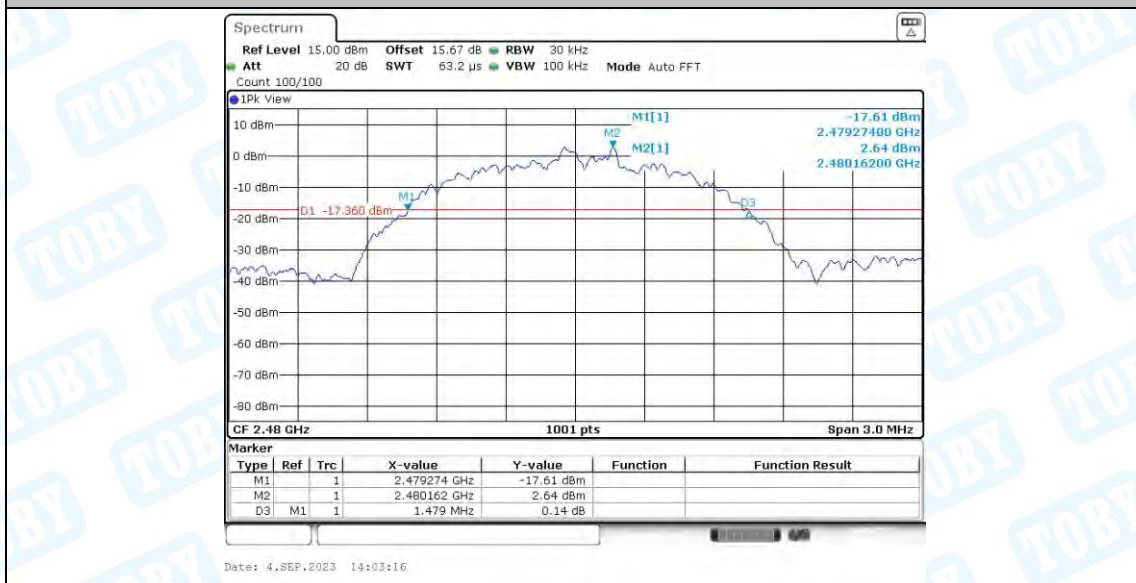
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

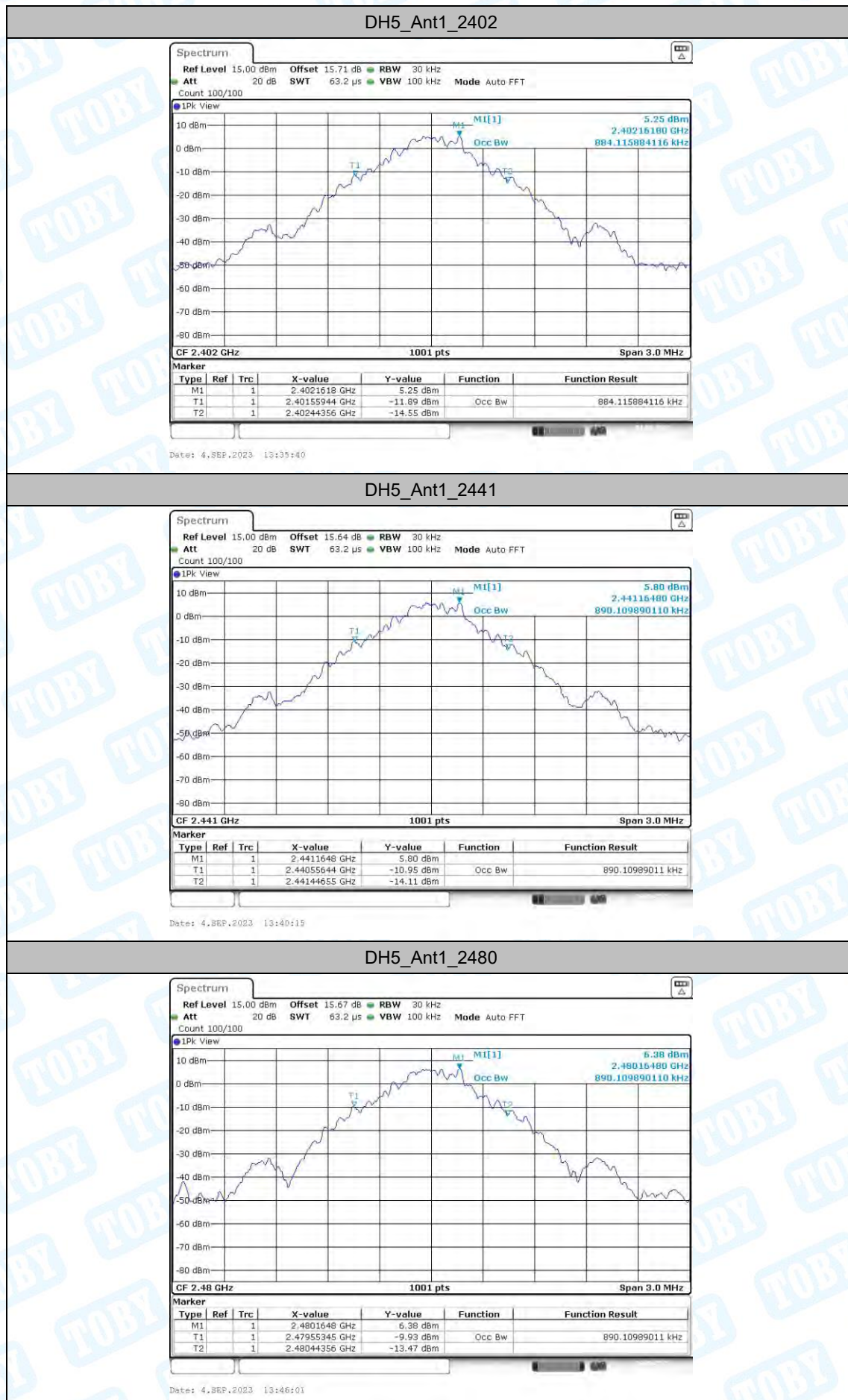


2. Occupied Channel Bandwidth

2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.884	2401.5594	2402.4436	---	---
		2441	0.89	2440.5564	2441.4466	---	---
		2480	0.89	2479.5534	2480.4436	---	---
2DH5	Ant1	2402	1.358	2401.3197	2402.6773	---	---
		2441	1.349	2440.3287	2441.6773	---	---
		2480	1.349	2479.3257	2480.6743	---	---
3DH5	Ant1	2402	1.358	2401.3227	2402.6803	---	---
		2441	1.355	2440.3287	2441.6833	---	---
		2480	1.355	2479.3227	2480.6773	---	---

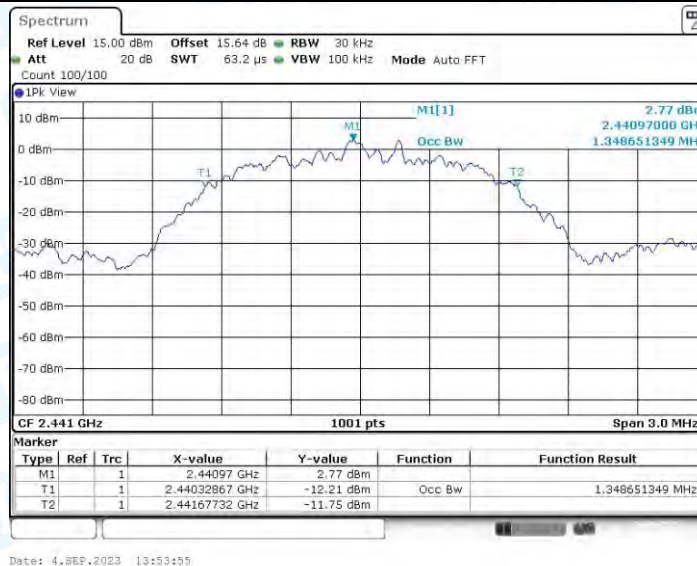
2.2. Test Graphs



2DH5_Ant1_2402



2DH5_Ant1_2441



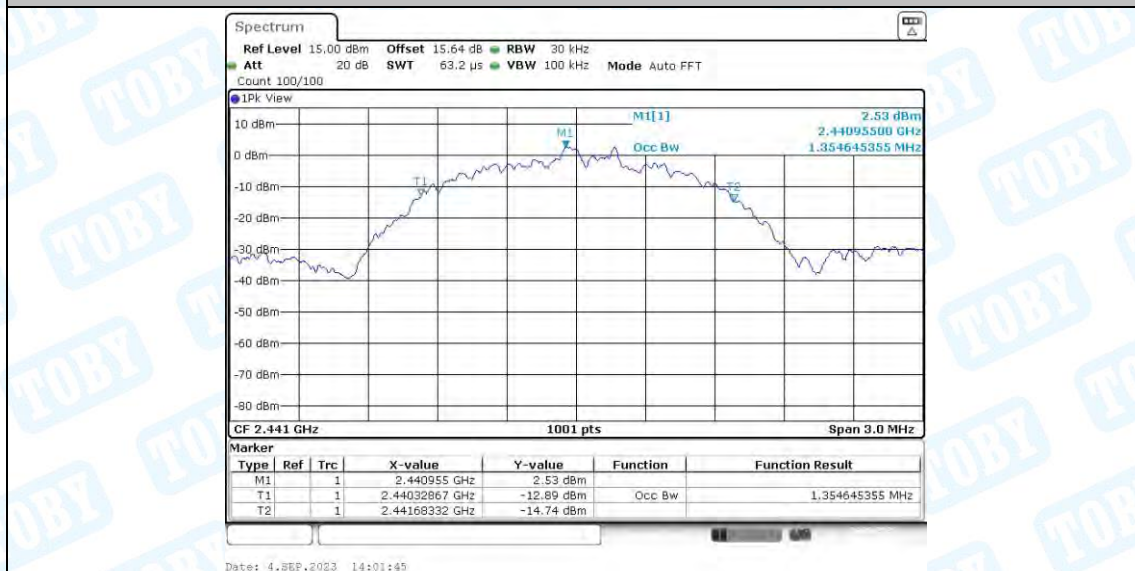
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



3. Maximum conducted output power

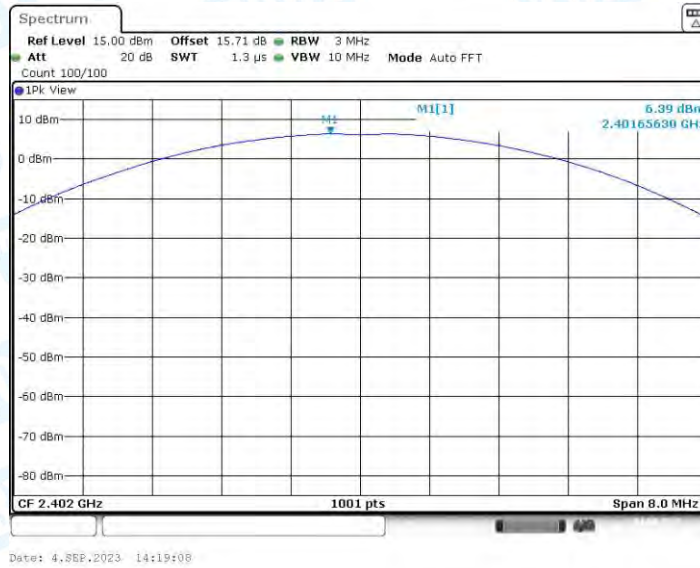
3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	7.89	≤21	PASS
		2441	8.39	≤21	PASS
		2480	9.03	≤21	PASS
2DH5	Ant1	2402	6.39	≤21	PASS
		2441	7.03	≤21	PASS
		2480	7.16	≤21	PASS
3DH5	Ant1	2402	6.44	≤21	PASS
		2441	7.19	≤21	PASS
		2480	7.23	≤21	PASS

3.2. Test Graphs



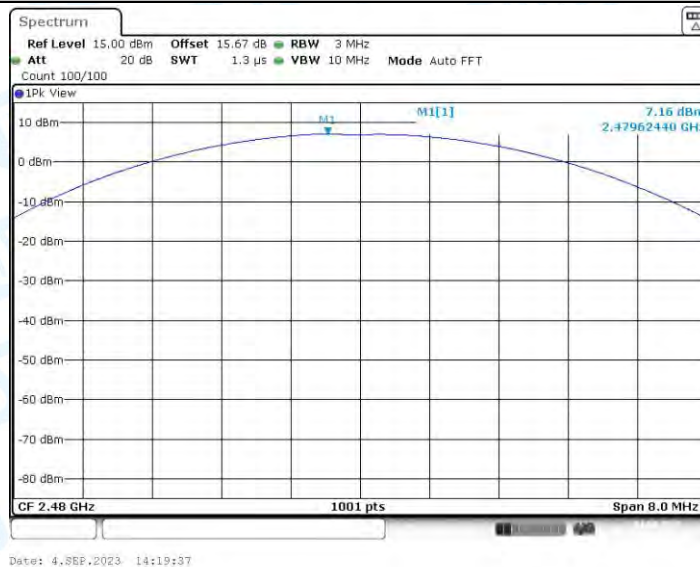
2DH5_Ant1_2402



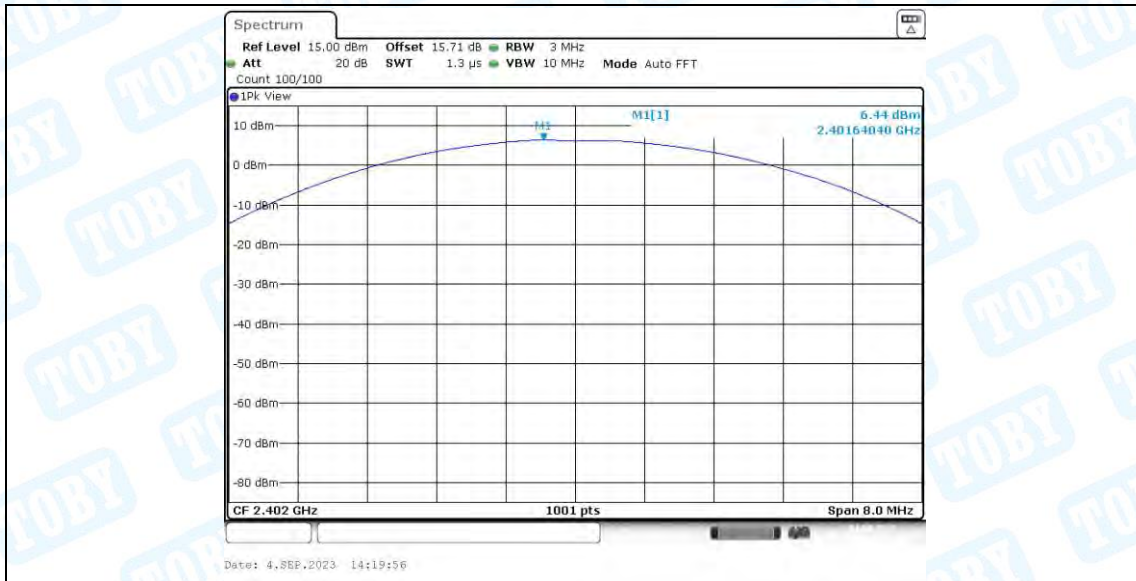
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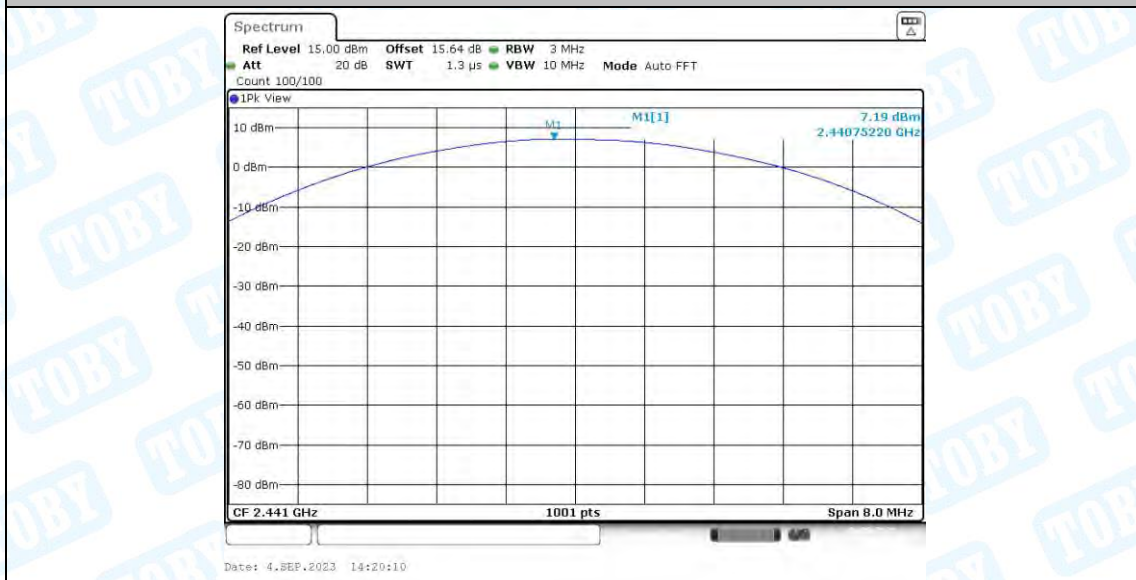
2DH5_Ant1_2480



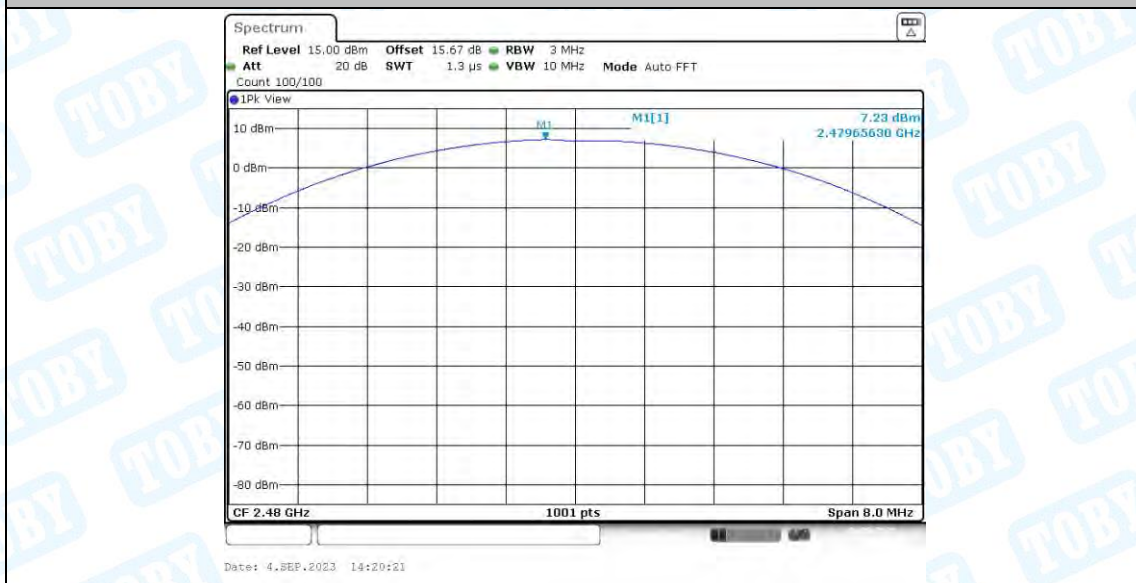
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



4. Carrier frequency separation

4.1. Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.316	≥ 0.647	PASS
2DH5	Ant1	Hop	1.023	≥ 0.980	PASS
3DH5	Ant1	Hop	1.214	≥ 0.987	PASS

4.2. Test Graphs

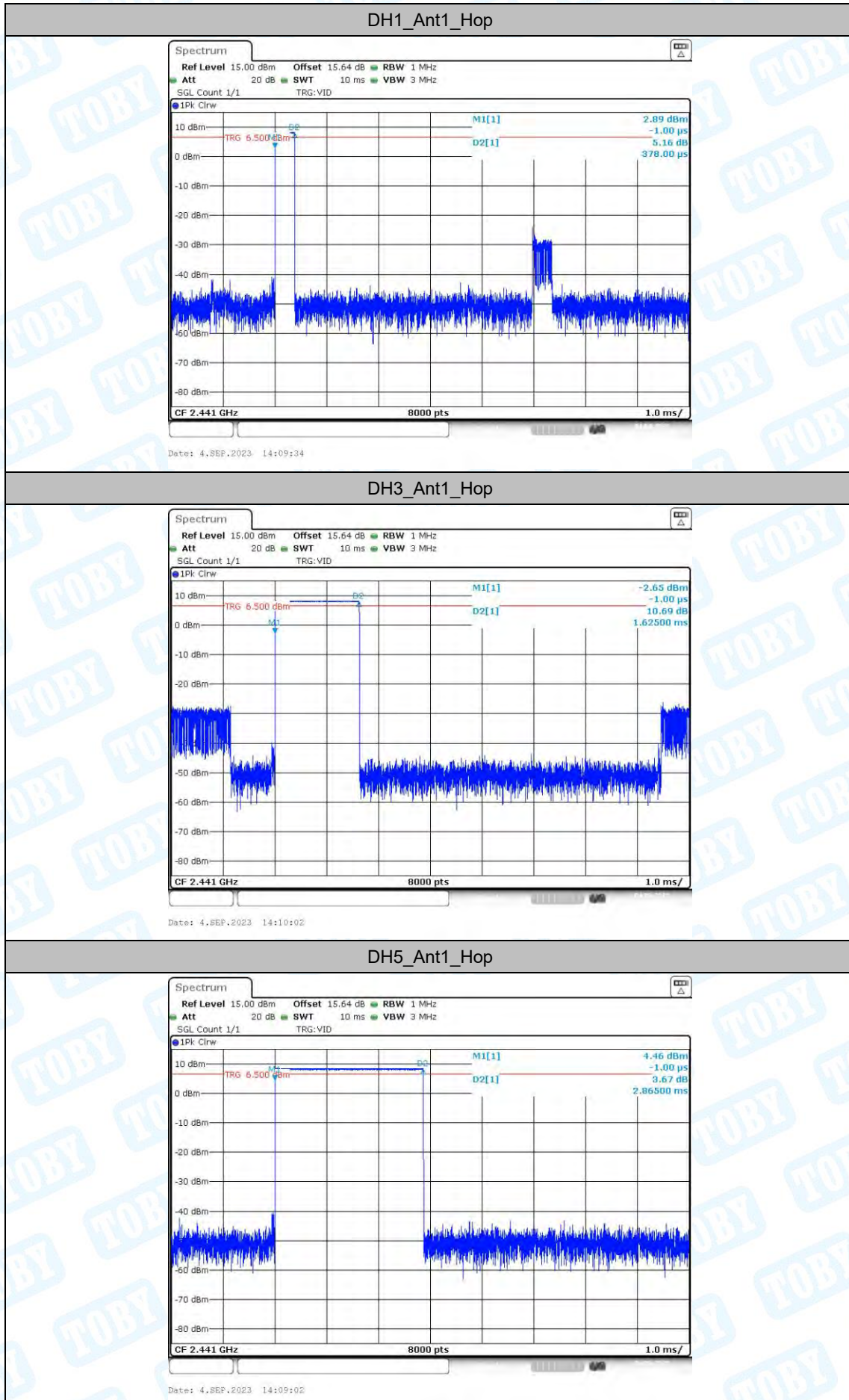


5. Time of occupancy

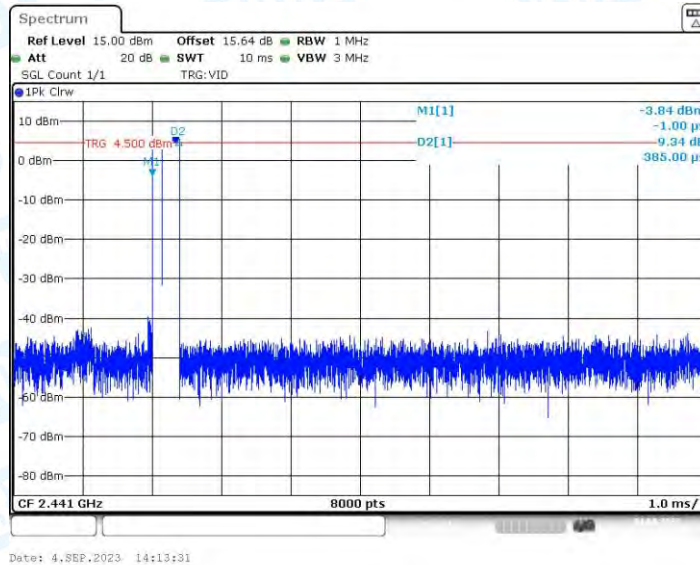
5.1. Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.378	320	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.625	160	0.26	≤0.4	PASS
DH5	Ant1	Hop	2.865	106.67	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.385	320	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.629	160	0.261	≤0.4	PASS
2DH5	Ant1	Hop	2.870	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.385	320	0.123	≤0.4	PASS
3DH3	Ant1	Hop	1.629	160	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.872	106.67	0.306	≤0.4	PASS

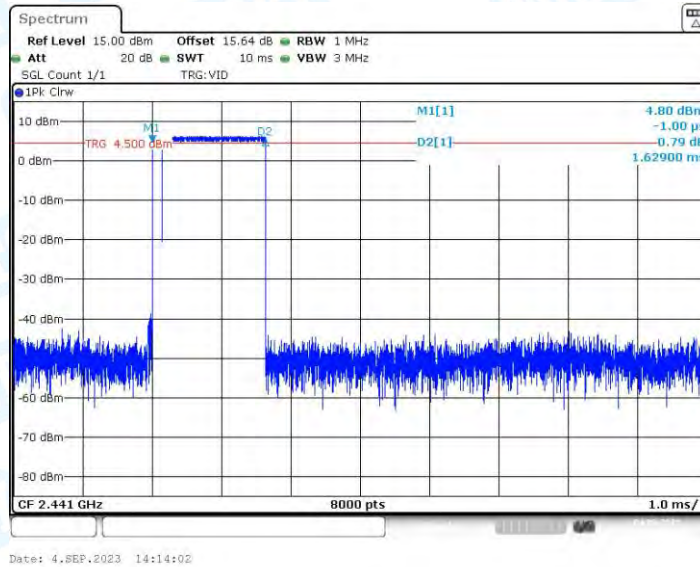
5.2. Test Graphs



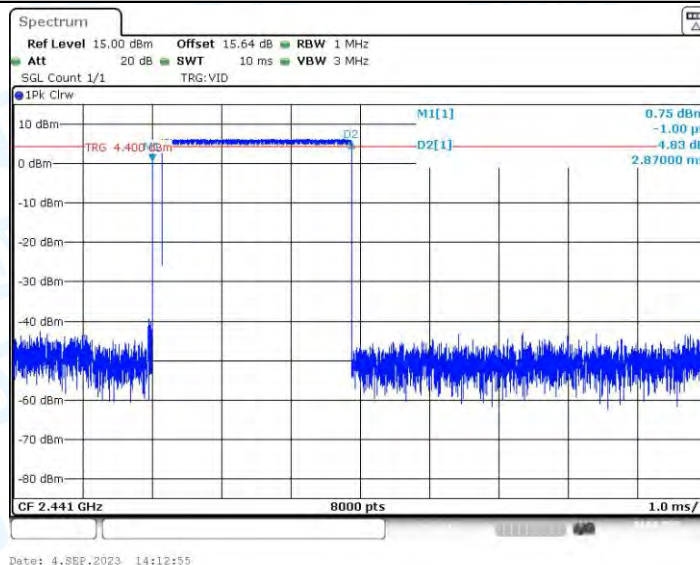
2DH1_Ant1_Hop



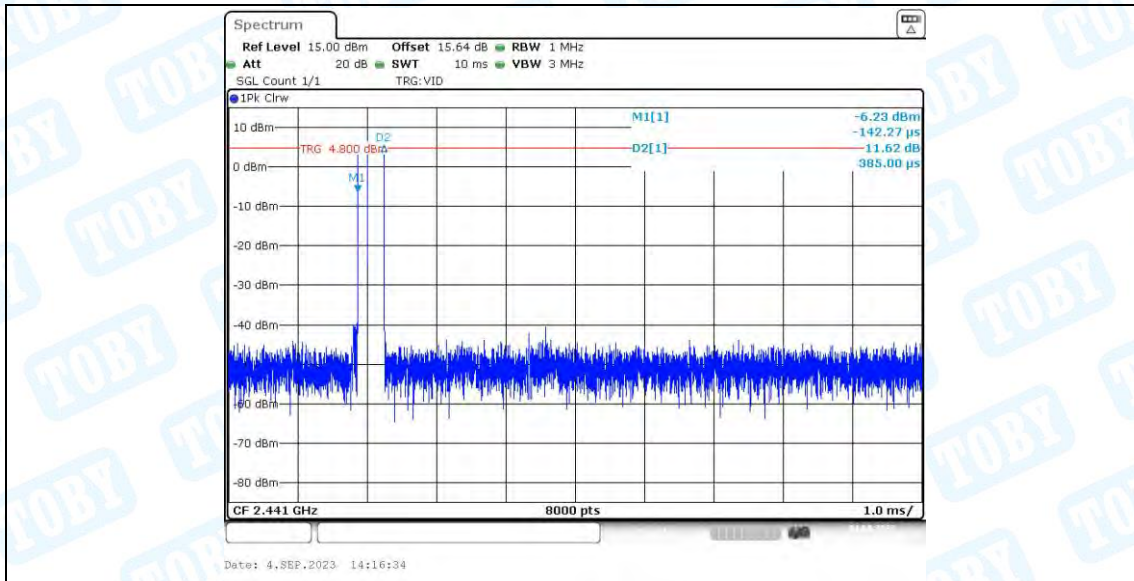
2DH3_Ant1_Hop



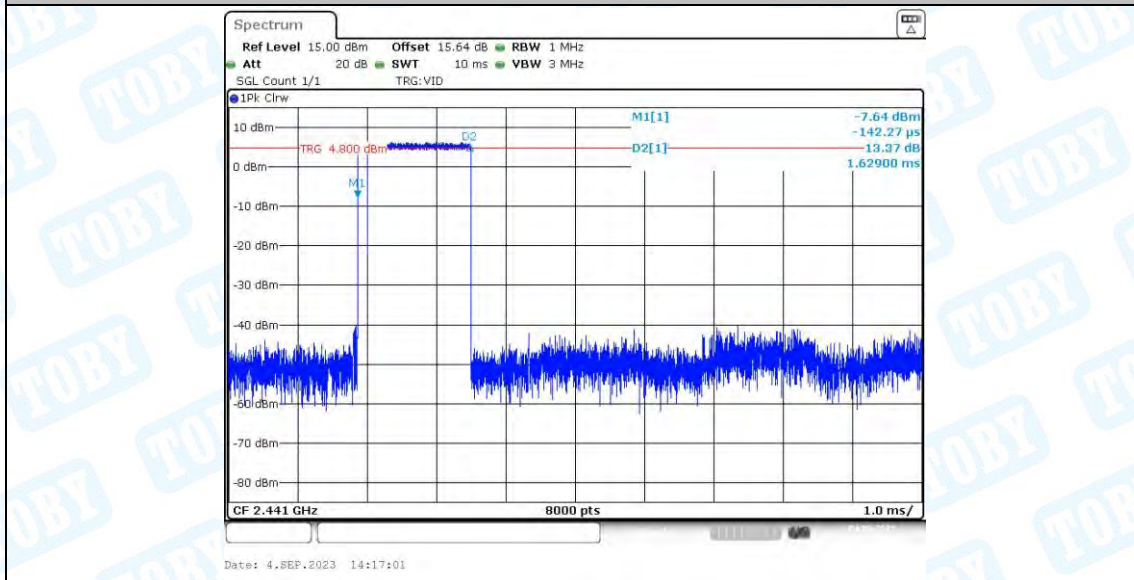
2DH5_Ant1_Hop



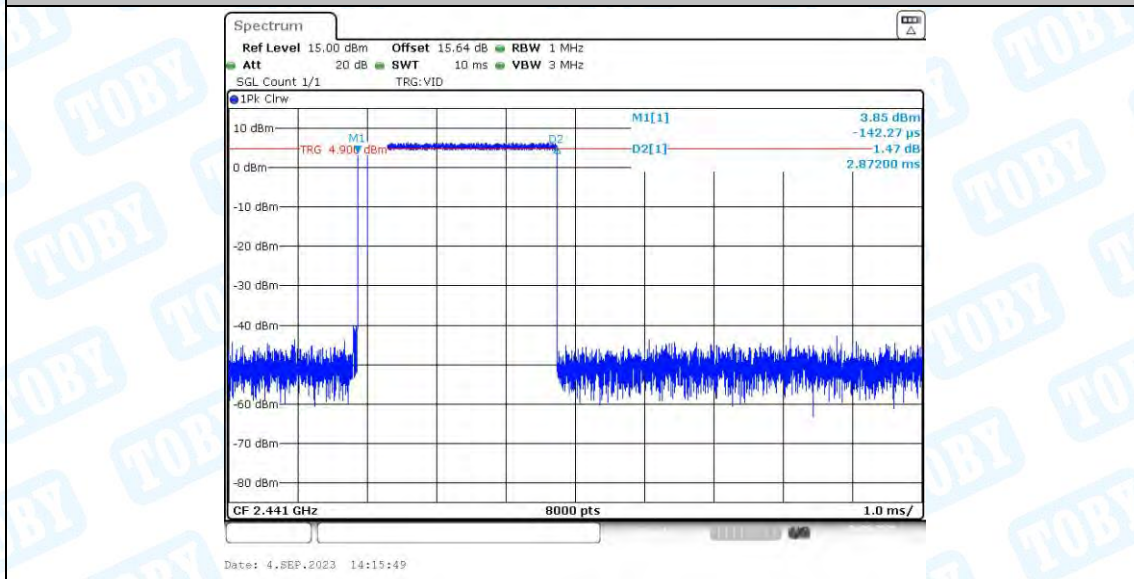
3DH1_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop



6. Number of hopping channels

6.1. Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

6.2.Test Graphs

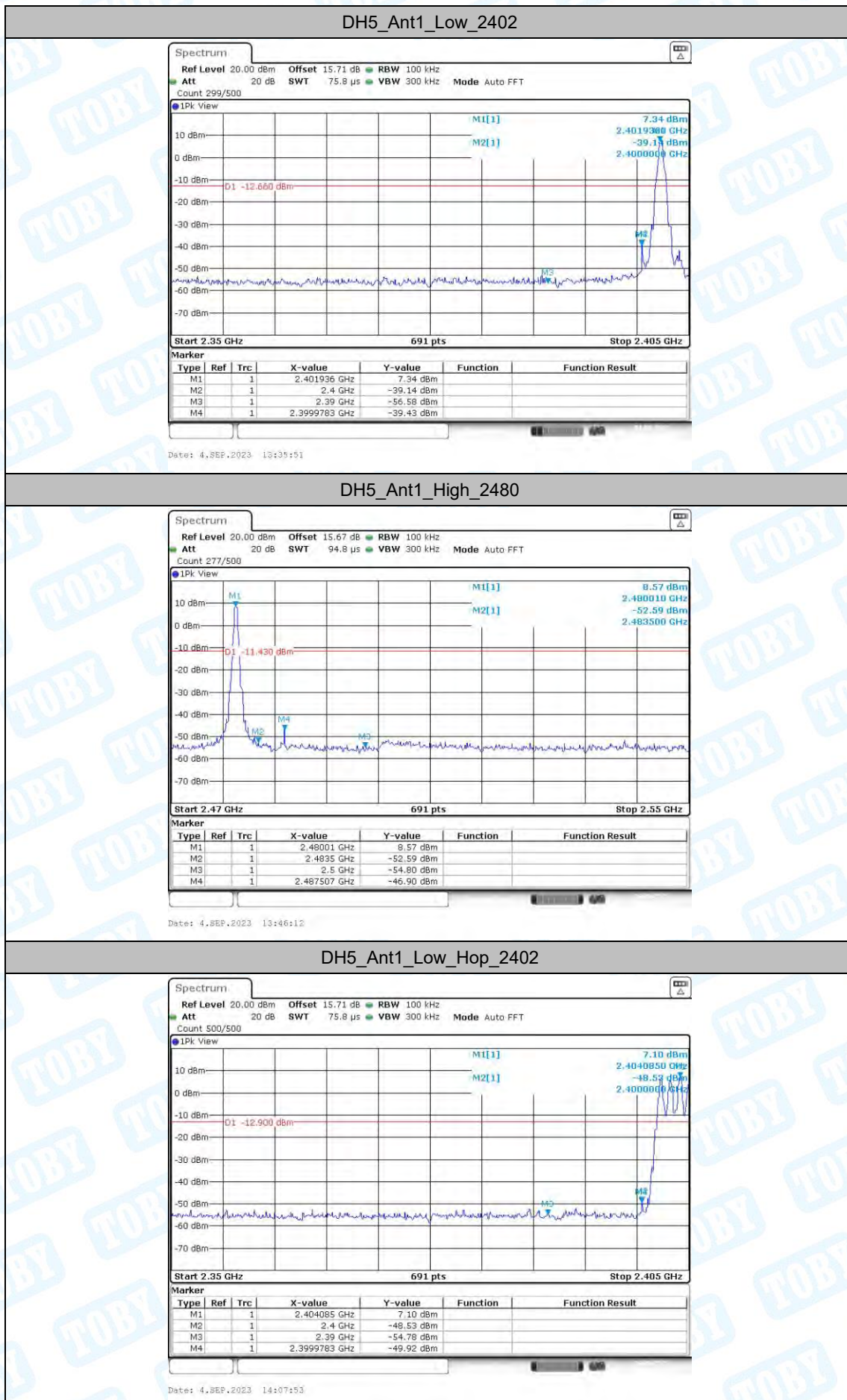


7. Band edge measurements

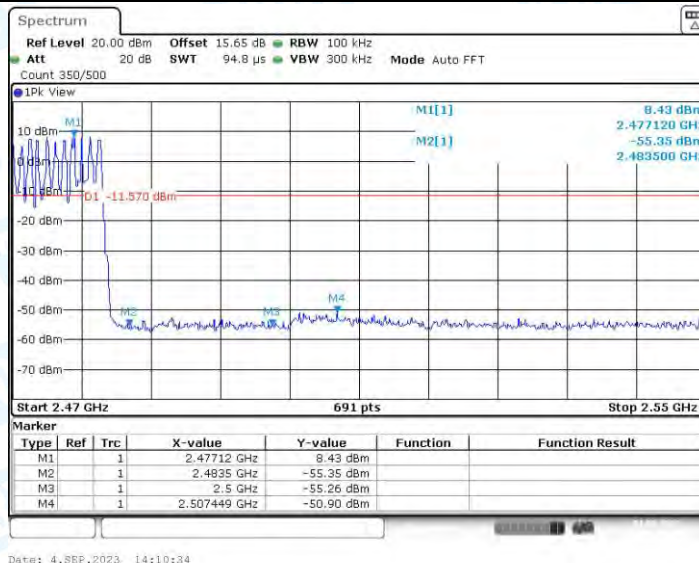
7.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	7.34	-39.43	≤-12.66	PASS
		High	2480	8.57	-46.9	≤-11.43	PASS
		Low	Hop_2402	7.10	-49.92	≤-12.9	PASS
		High	Hop_2480	8.43	-50.9	≤-11.57	PASS
2DH5	Ant1	Low	2402	4.31	-44.15	≤-15.69	PASS
		High	2480	4.22	-50.82	≤-15.78	PASS
		Low	Hop_2402	3.60	-46.9	≤-16.4	PASS
		High	Hop_2480	5.60	-49.44	≤-14.4	PASS
3DH5	Ant1	Low	2402	4.67	-42.39	≤-15.33	PASS
		High	2480	4.79	-43.03	≤-15.21	PASS
		Low	Hop_2402	3.19	-46.36	≤-16.81	PASS
		High	Hop_2480	4.36	-50.48	≤-15.64	PASS

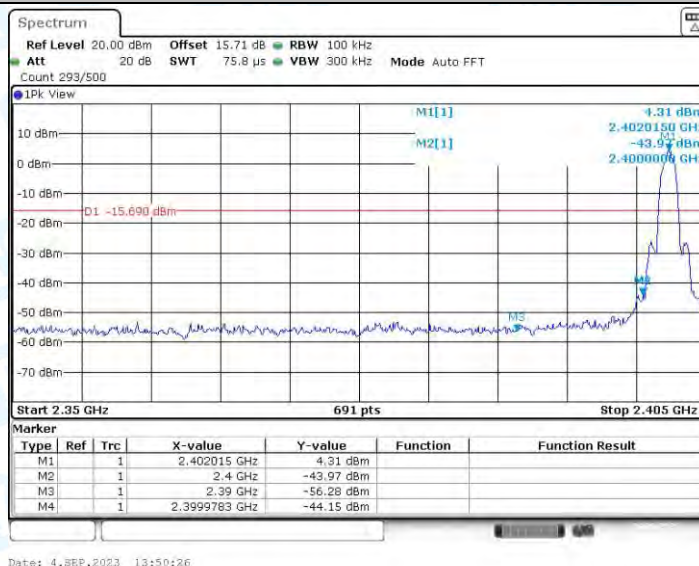
7.2. Test Graphs



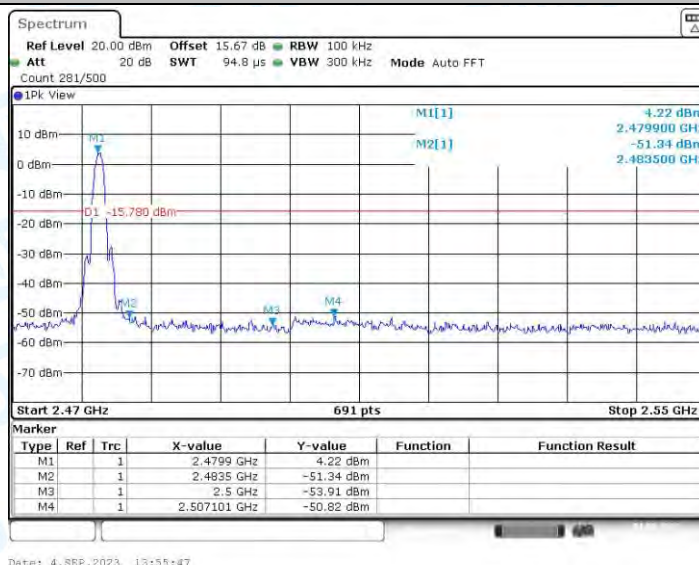
DH5_Ant1_High_Hop_2480



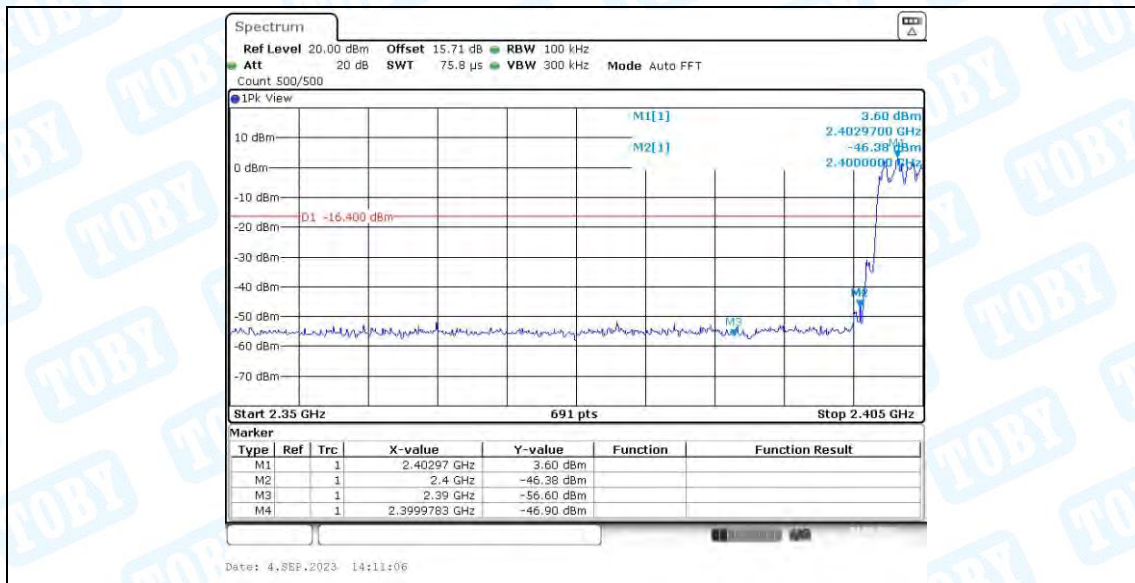
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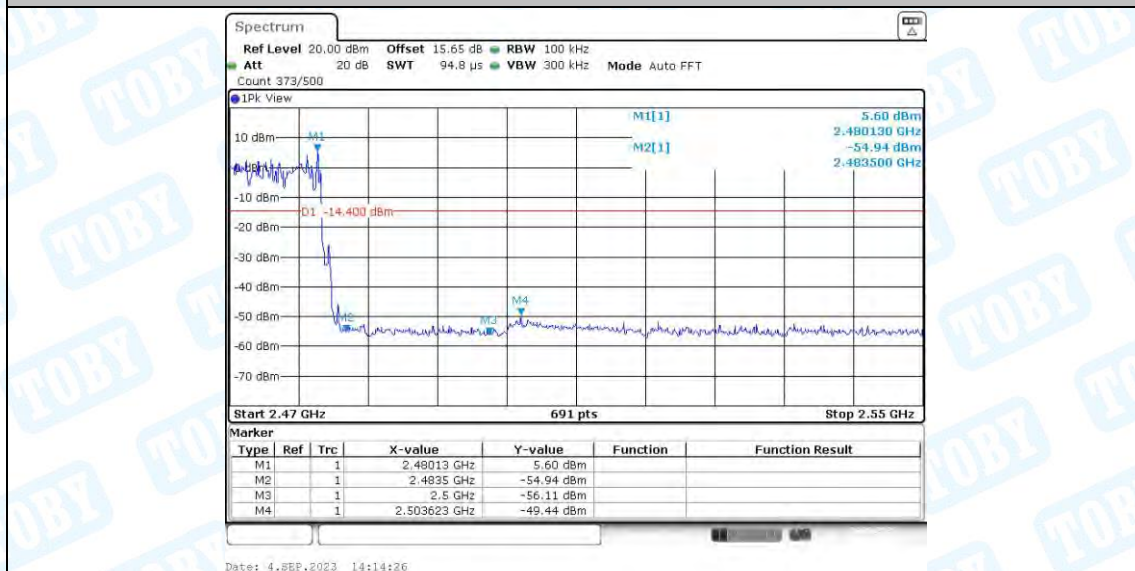
2DH5_Ant1_High_2480



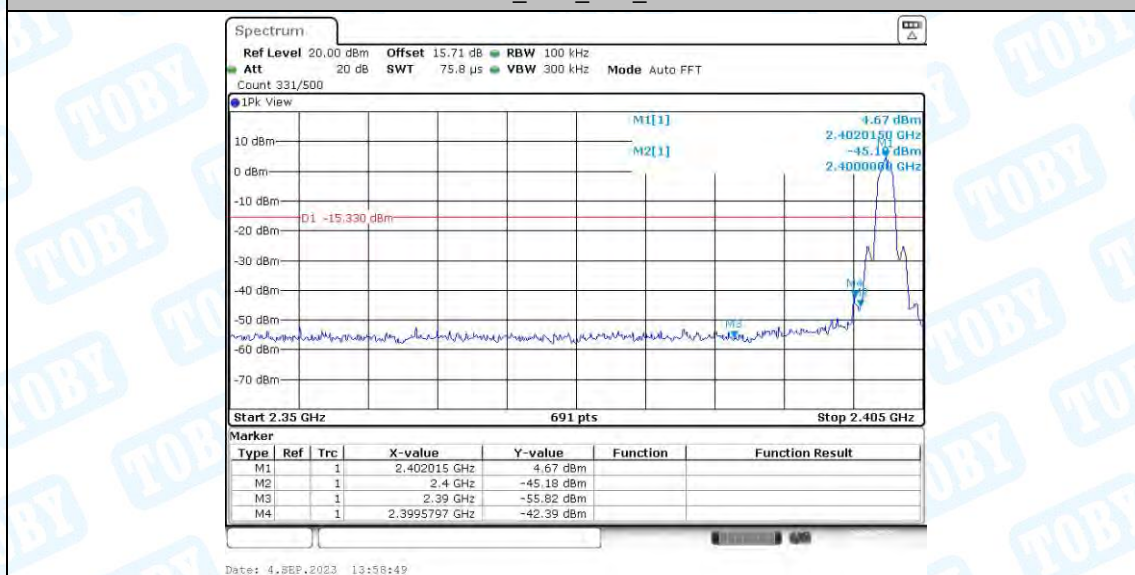
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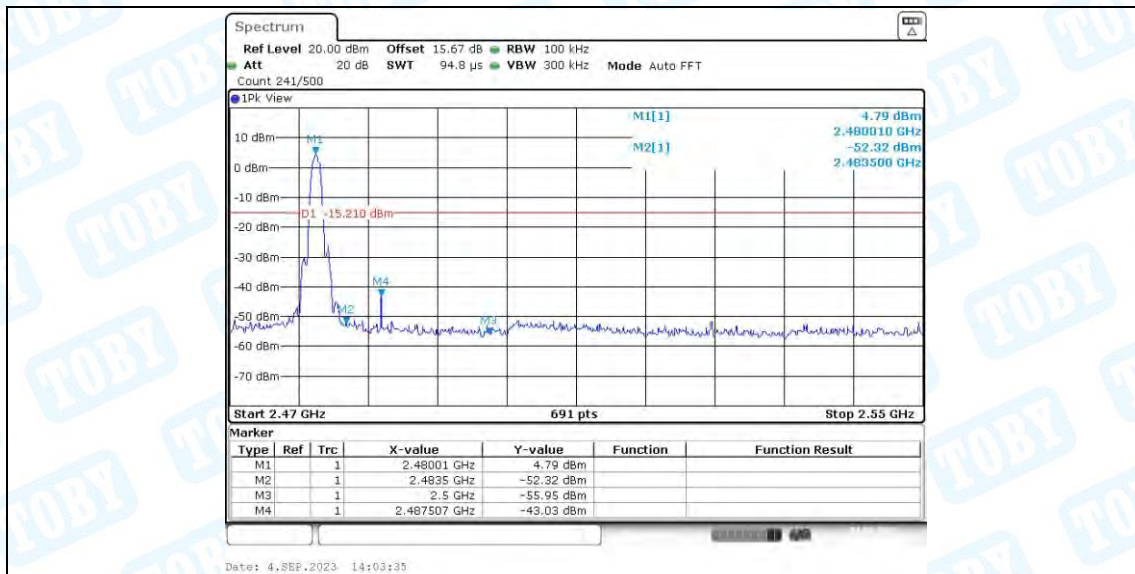
2DH5_Ant1_High_Hop_2480



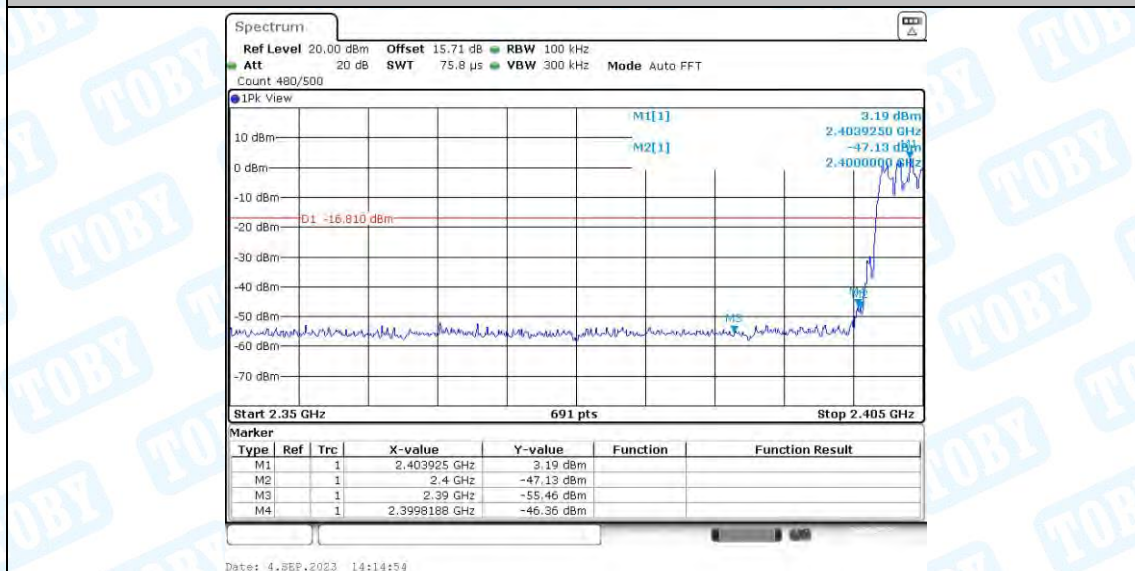
3DH5_Ant1_Low_2402



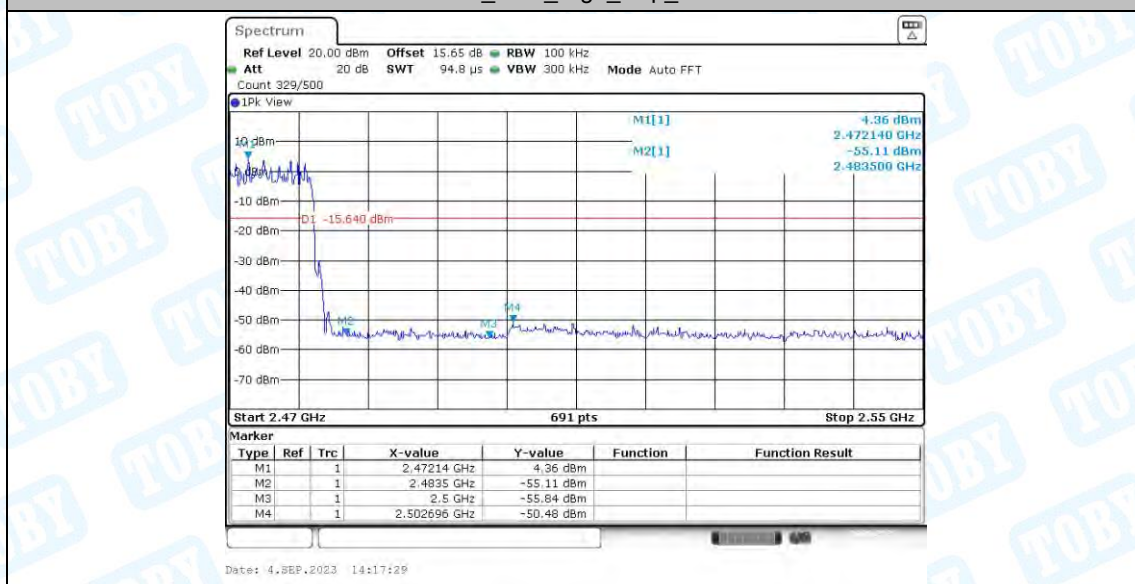
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

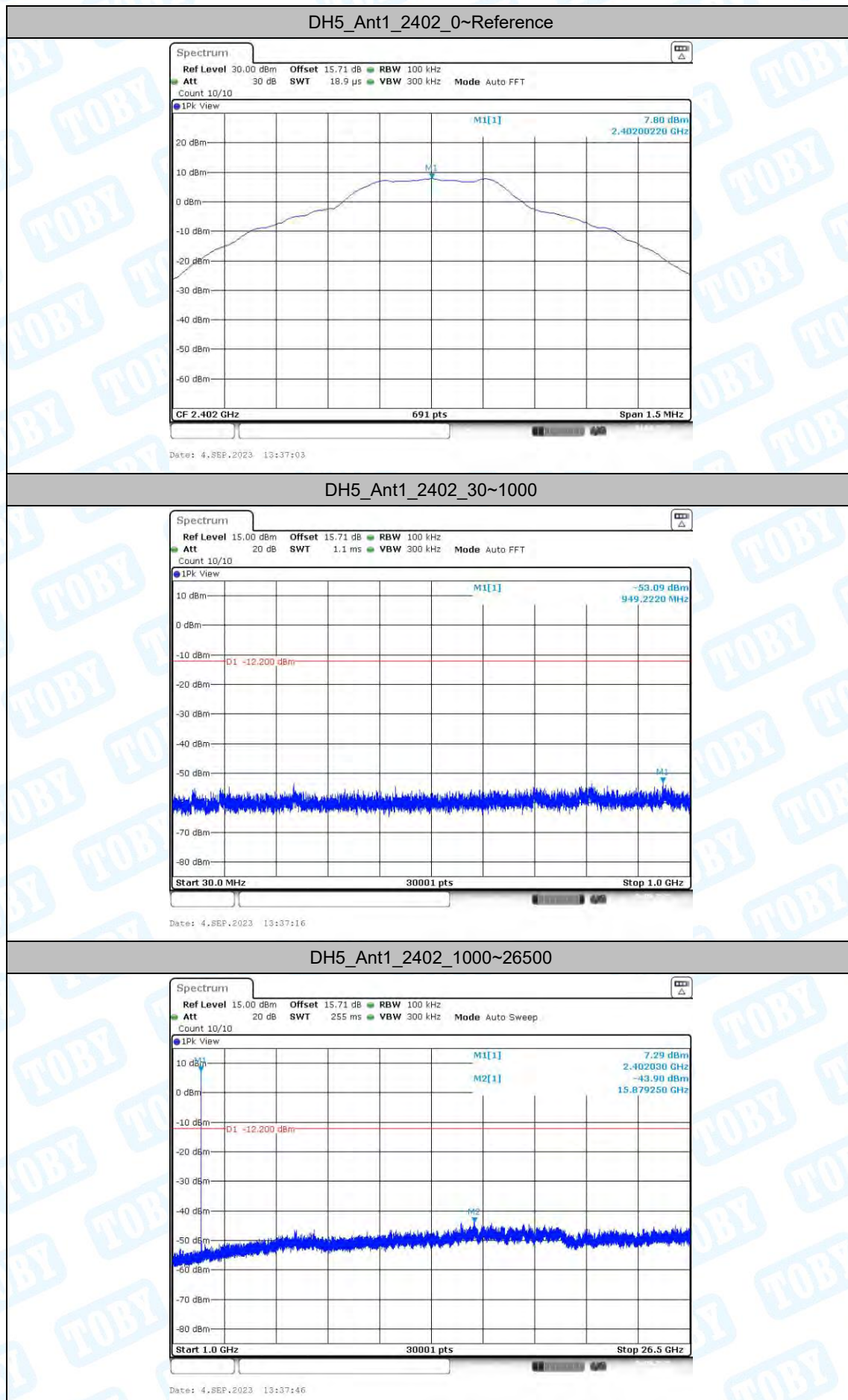


8. Conducted Spurious Emission

8.1. Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	7.80	7.80	---	PASS
			30~1000	7.80	-53.09	≤-12.2	PASS
			1000~26500	7.80	-43.9	≤-12.2	PASS
		2441	Reference	8.32	8.32	---	PASS
			30~1000	8.32	-53.28	≤-11.68	PASS
			1000~26500	8.32	-43.28	≤-11.68	PASS
		2480	Reference	8.87	8.87	---	PASS
			30~1000	8.87	-53.06	≤-11.13	PASS
			1000~26500	8.87	-44.55	≤-11.13	PASS
2DH5	Ant1	2402	Reference	4.67	4.67	---	PASS
			30~1000	4.67	-52.81	≤-15.33	PASS
			1000~26500	4.67	-44.55	≤-15.33	PASS
		2441	Reference	5.29	5.29	---	PASS
			30~1000	5.29	-53.41	≤-14.71	PASS
			1000~26500	5.29	-43.81	≤-14.71	PASS
		2480	Reference	5.15	5.15	---	PASS
			30~1000	5.15	-52.47	≤-14.85	PASS
			1000~26500	5.15	-43.8	≤-14.85	PASS
3DH5	Ant1	2402	Reference	4.72	4.72	---	PASS
			30~1000	4.72	-52.33	≤-15.28	PASS
			1000~26500	4.72	-44.07	≤-15.28	PASS
		2441	Reference	5.26	5.26	---	PASS
			30~1000	5.26	-53.2	≤-14.74	PASS
			1000~26500	5.26	-44.06	≤-14.74	PASS
		2480	Reference	5.12	5.12	---	PASS
			30~1000	5.12	-52.61	≤-14.88	PASS
			1000~26500	5.12	-44.13	≤-14.88	PASS

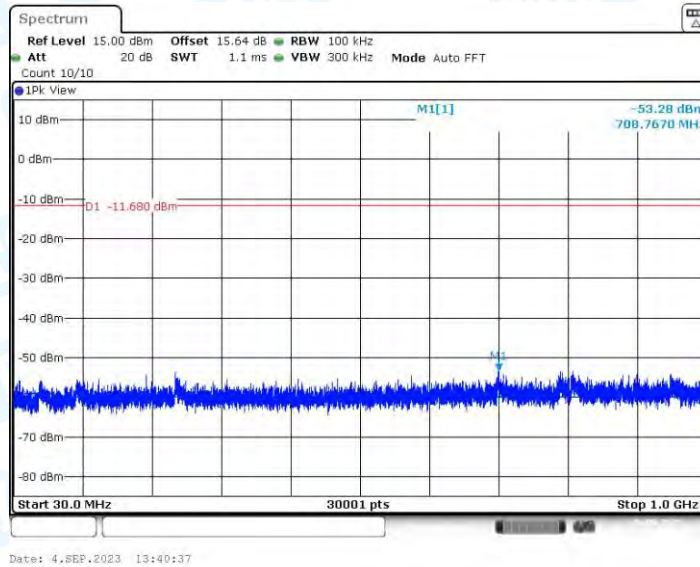
8.2.Test Graphs



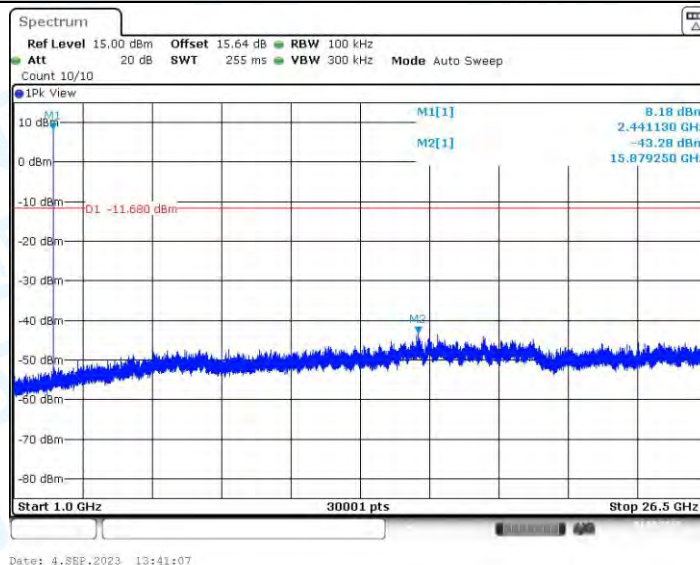
DH5_Ant1_2441_0~Reference



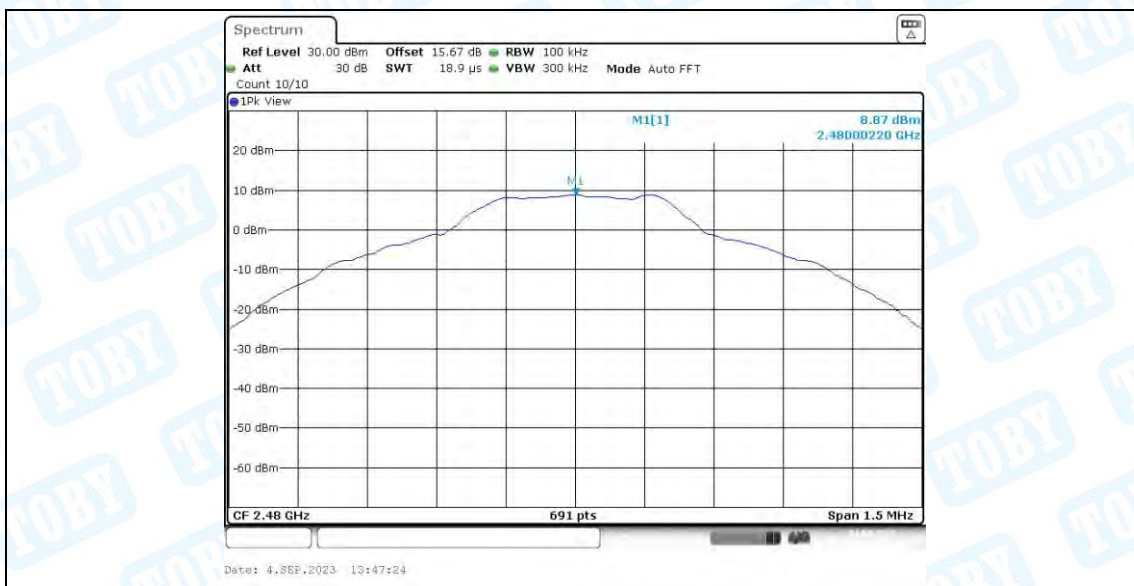
DH5_Ant1_2441_30~1000



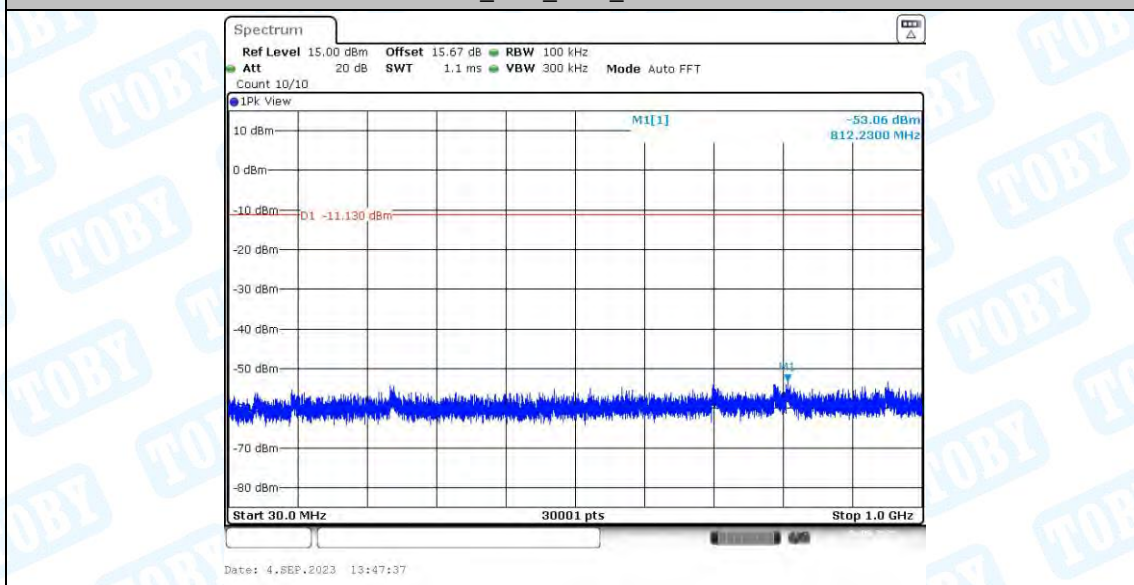
DH5_Ant1_2441_1000~26500



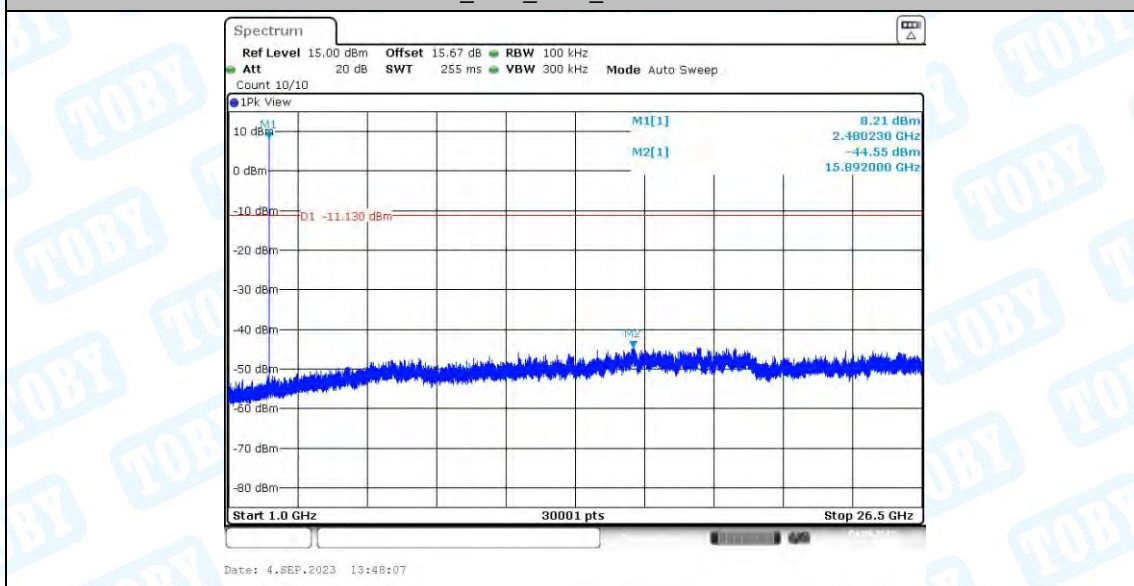
DH5_Ant1_2480_0~Reference



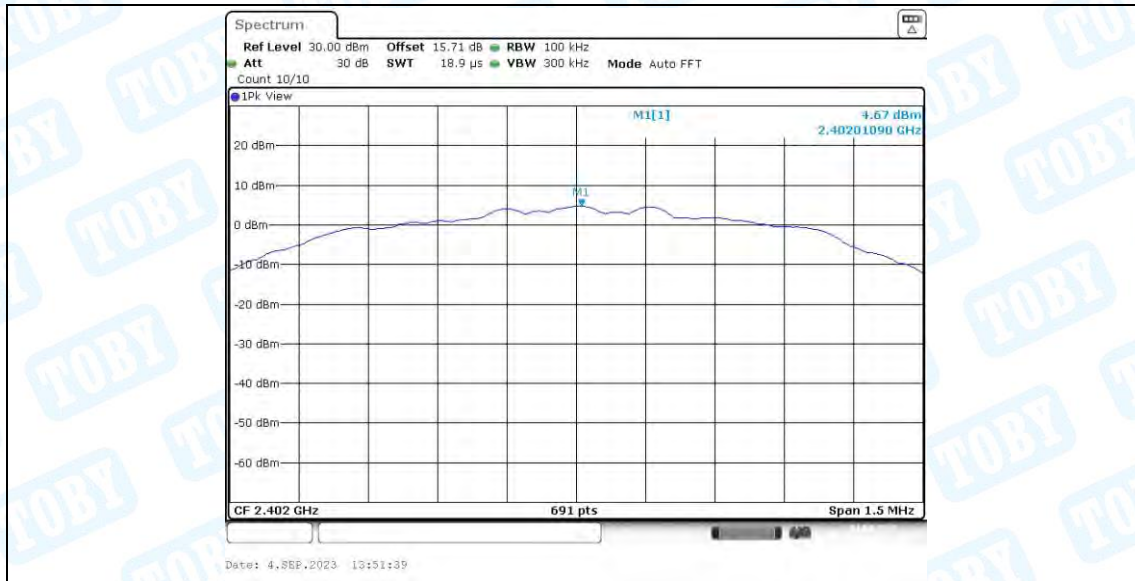
DH5_Ant1_2480_30~1000



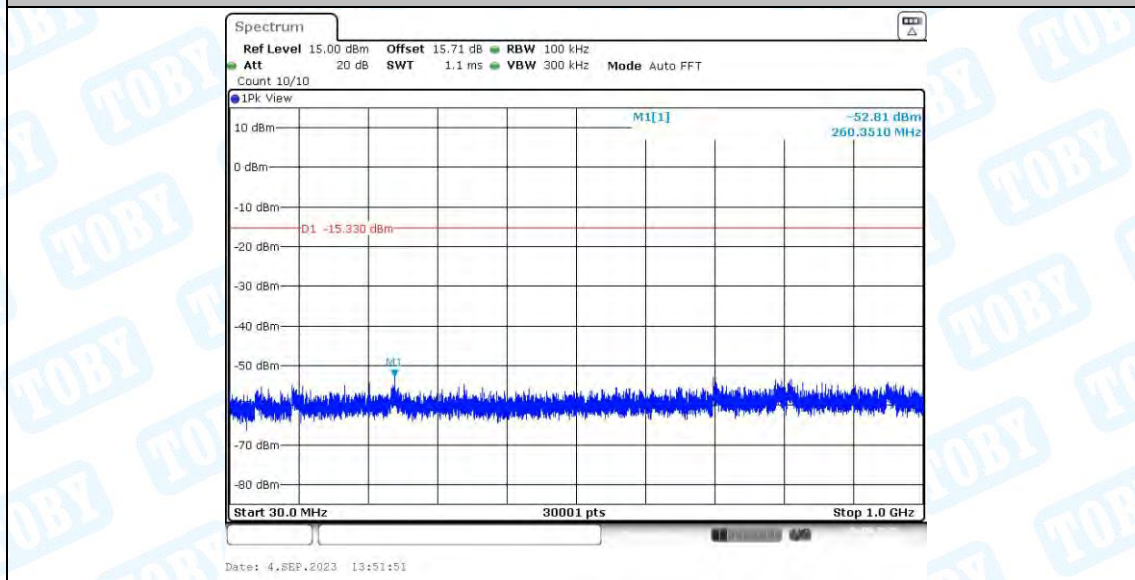
DH5_Ant1_2480_1000~26500



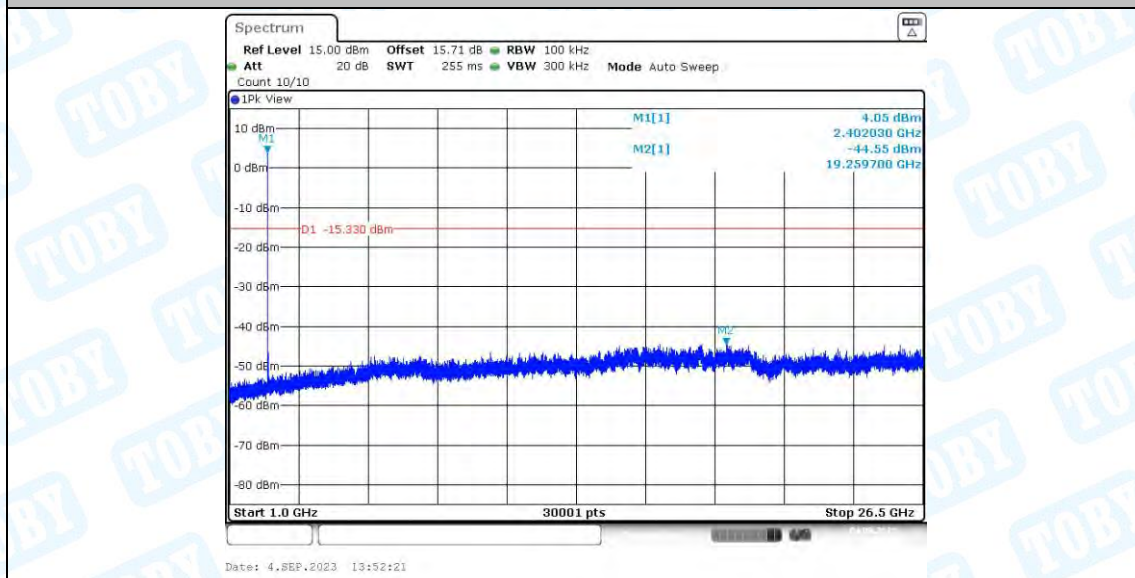
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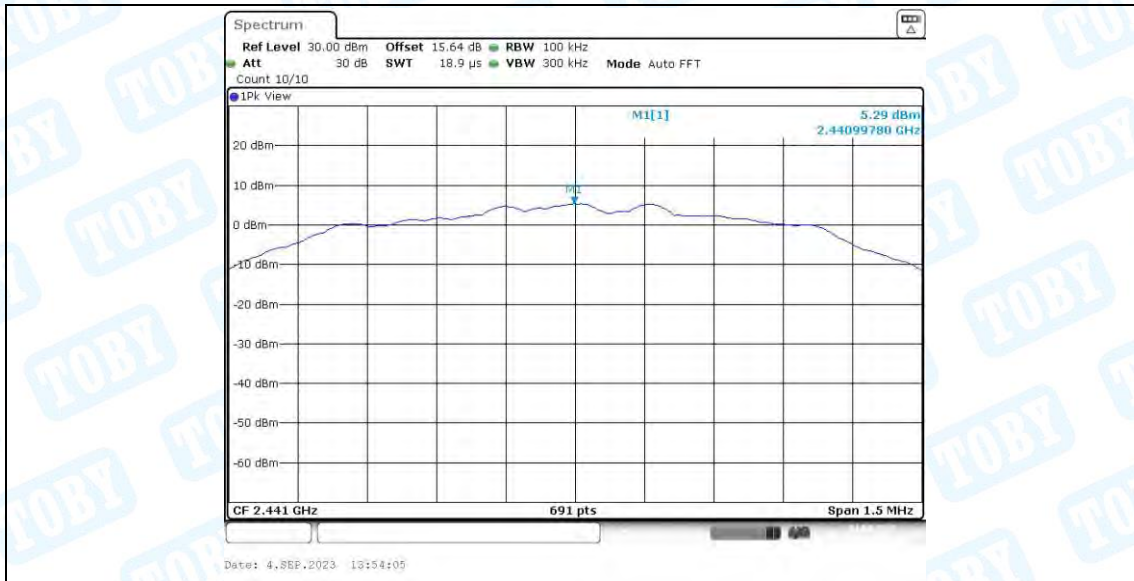
2DH5_Ant1_2402_30~1000



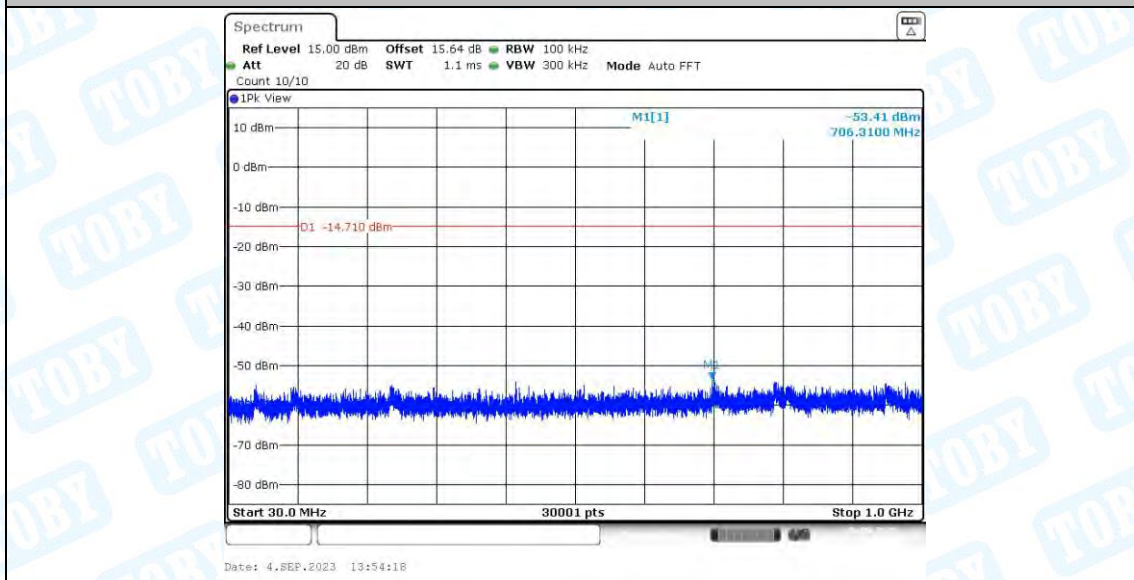
2DH5_Ant1_2402_1000~26500



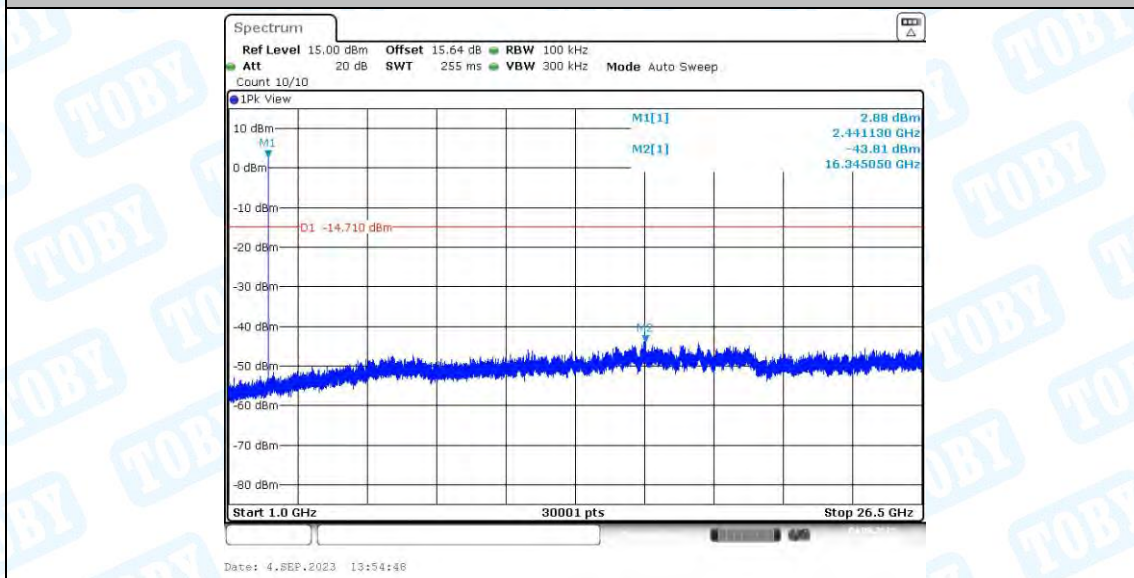
2DH5_Ant1_2441_0~Reference



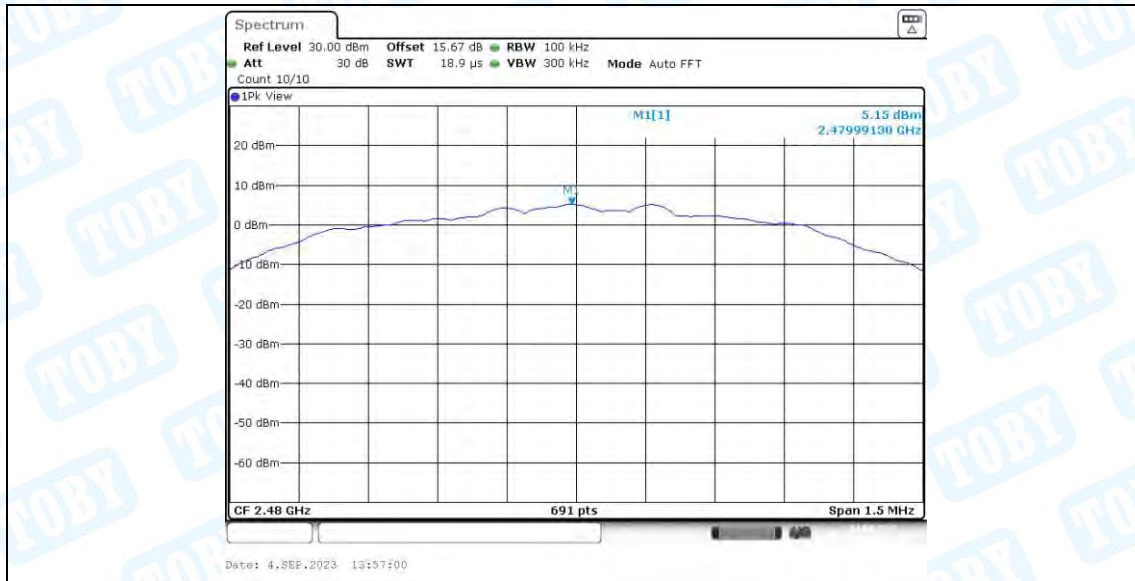
2DH5_Ant1_2441_30~1000



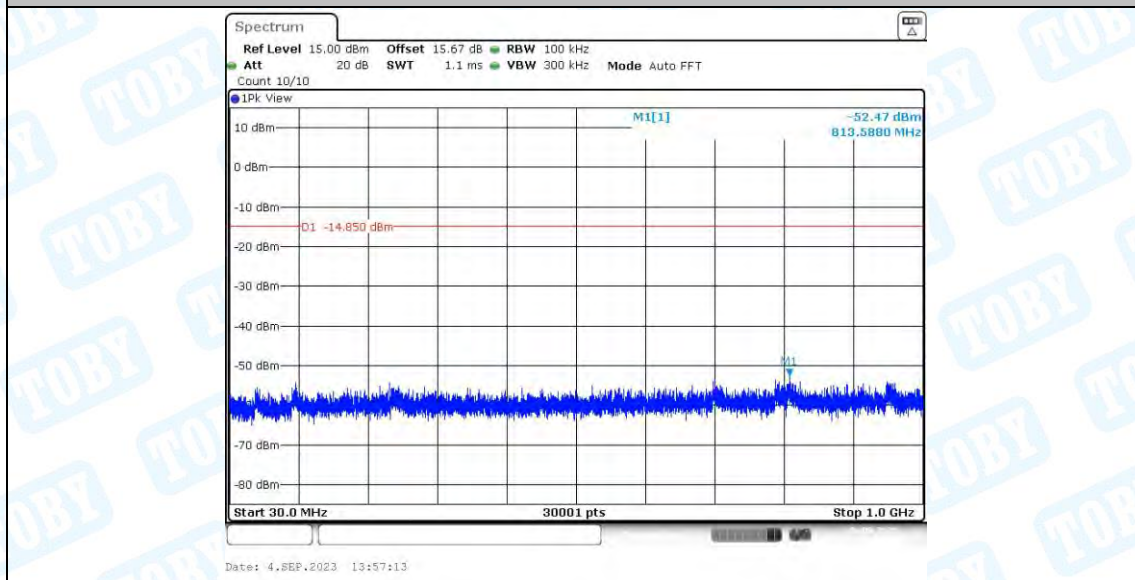
2DH5_Ant1_2441_1000~26500



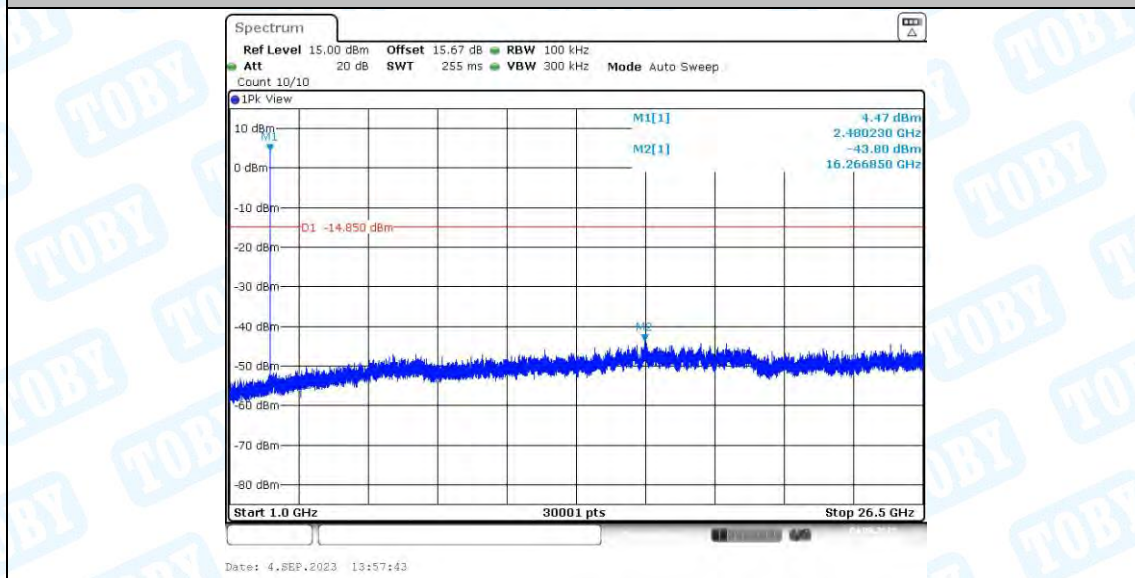
2DH5_Ant1_2480_0~Reference



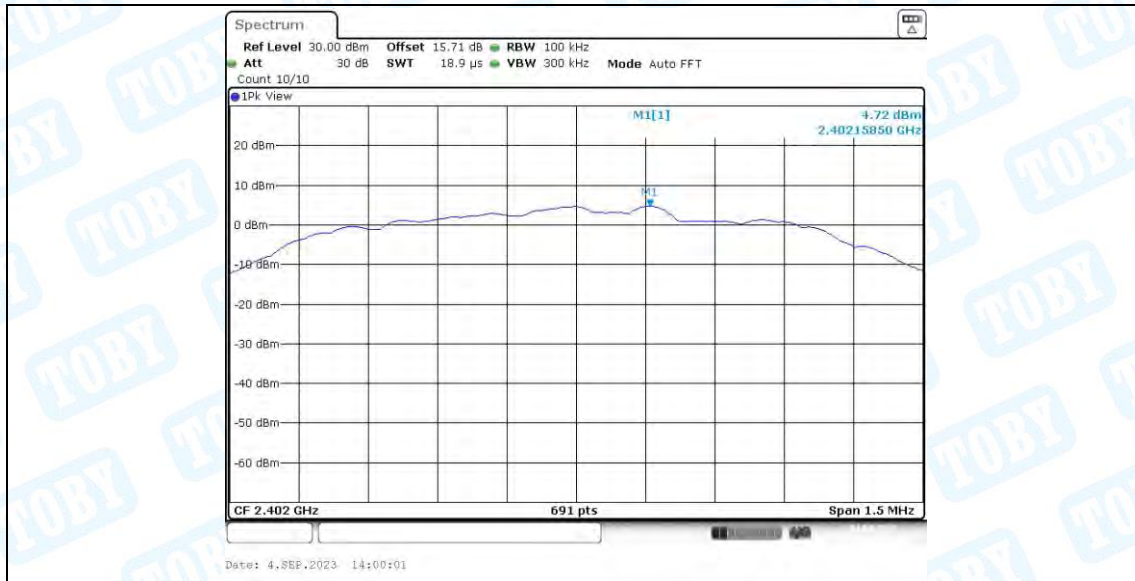
2DH5_Ant1_2480_30~1000



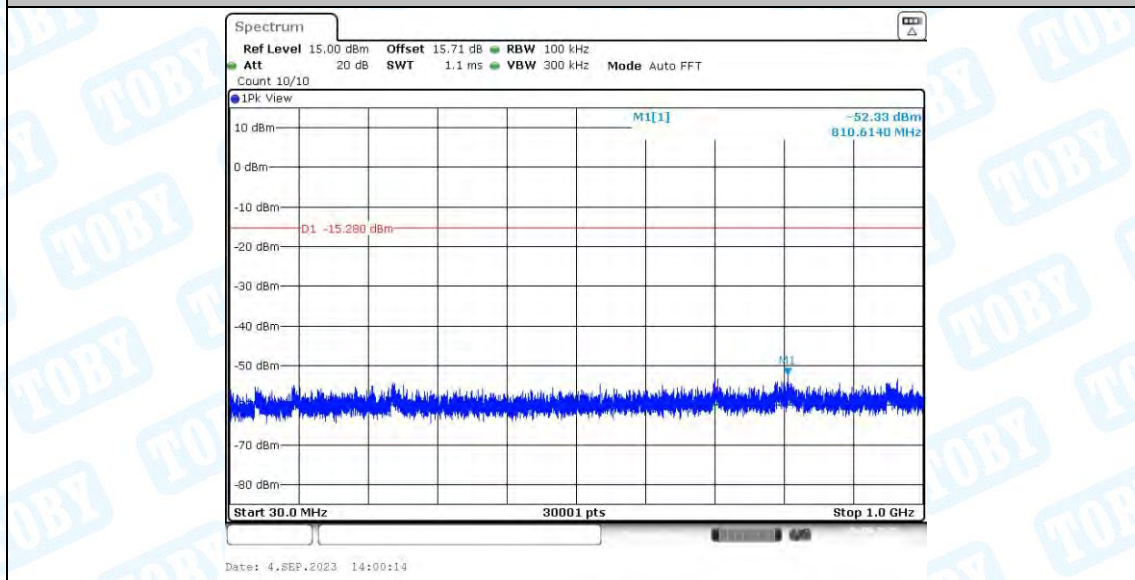
2DH5_Ant1_2480_1000~26500



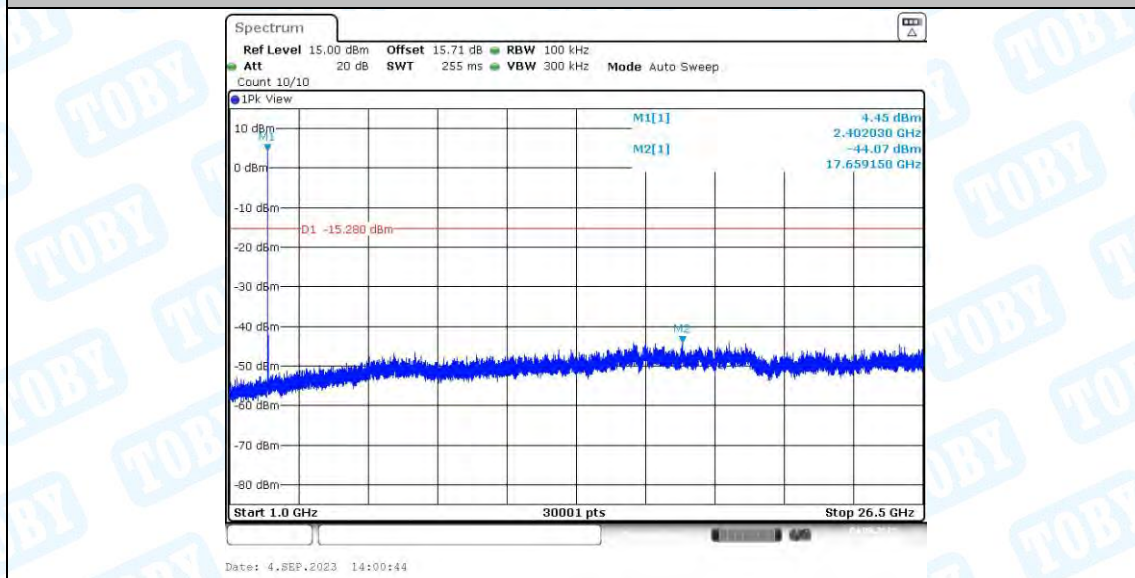
3DH5_Ant1_2402_0~Reference



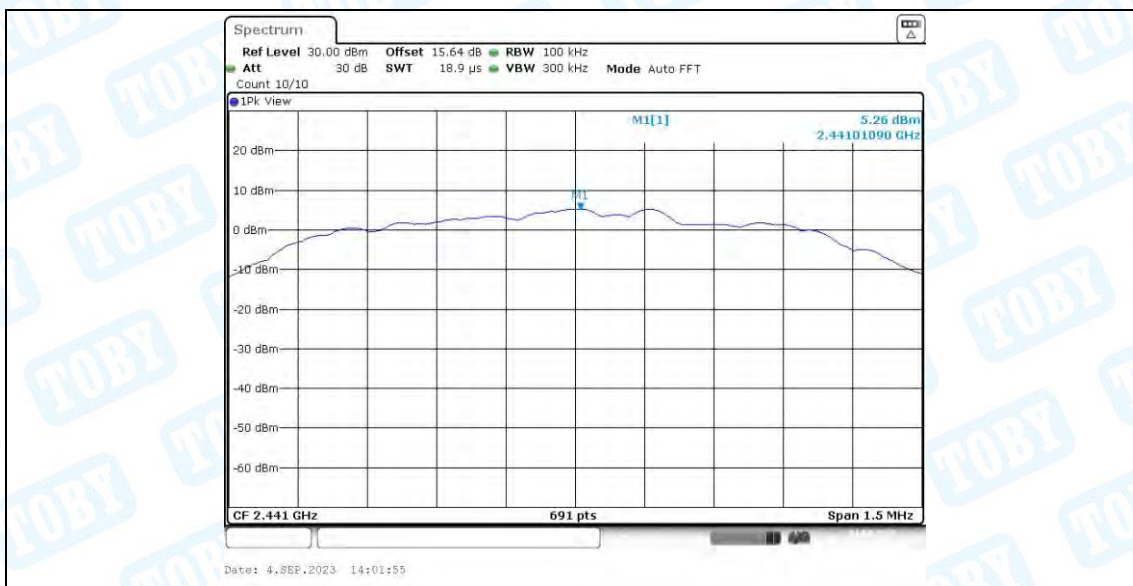
3DH5_Ant1_2402_30~1000



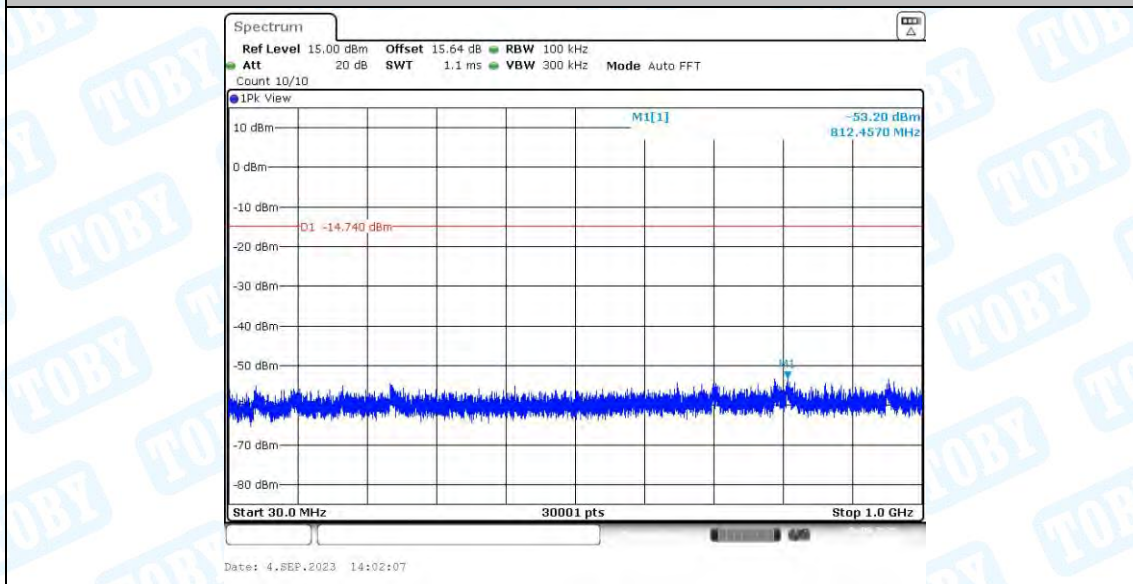
3DH5_Ant1_2402_1000~26500



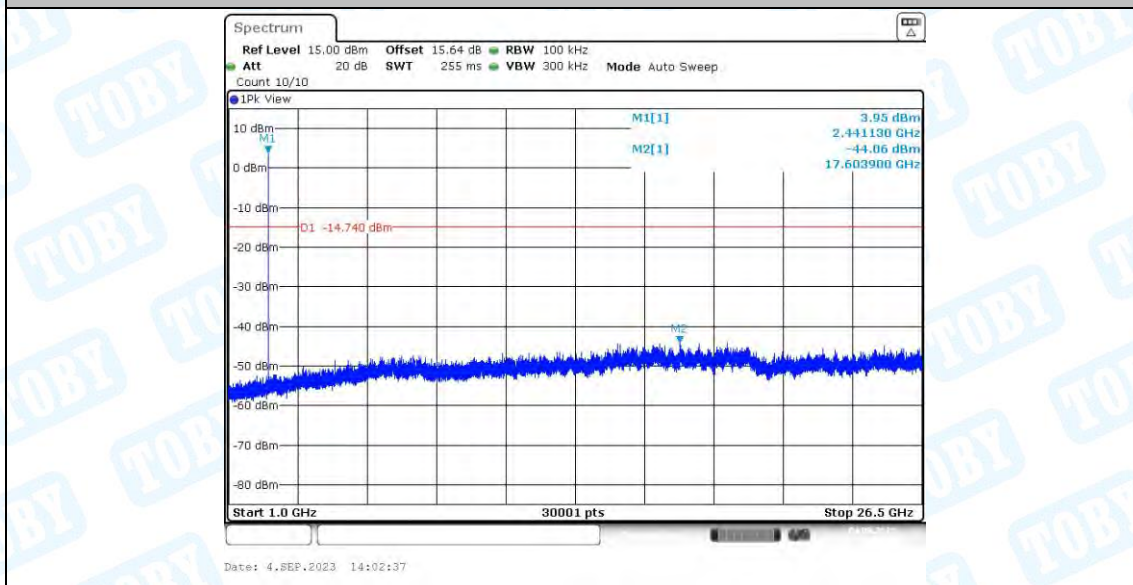
3DH5_Ant1_2441_0~Reference



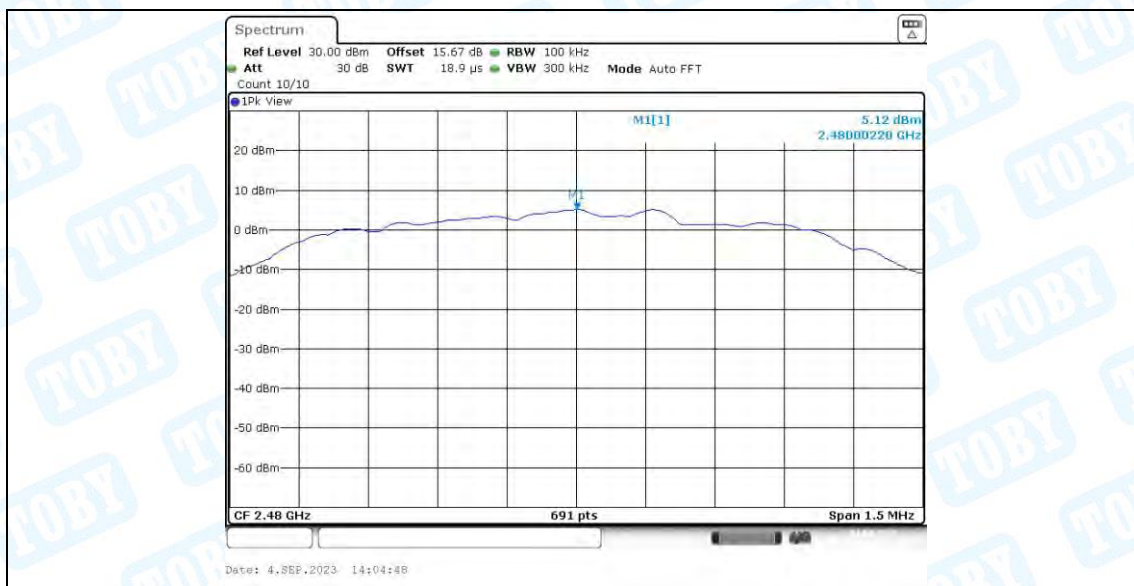
3DH5_Ant1_2441_30~1000



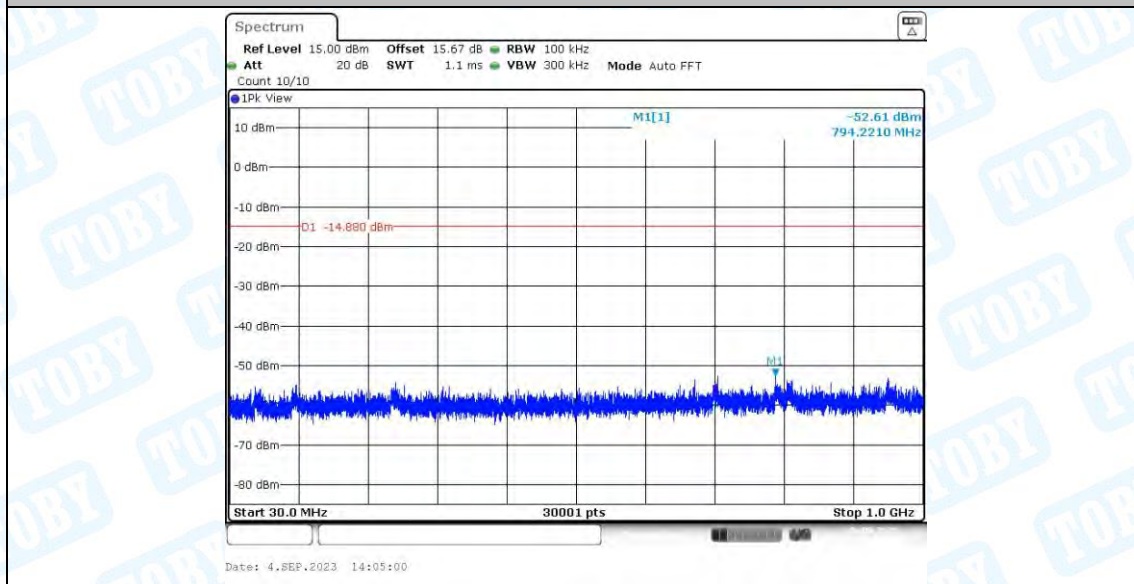
3DH5_Ant1_2441_1000~26500



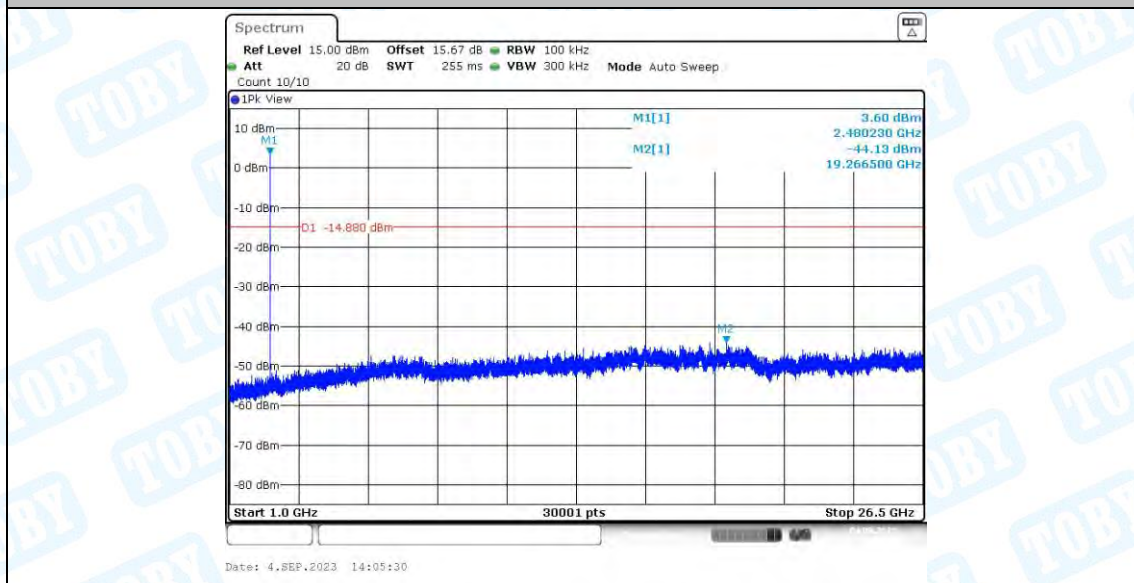
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

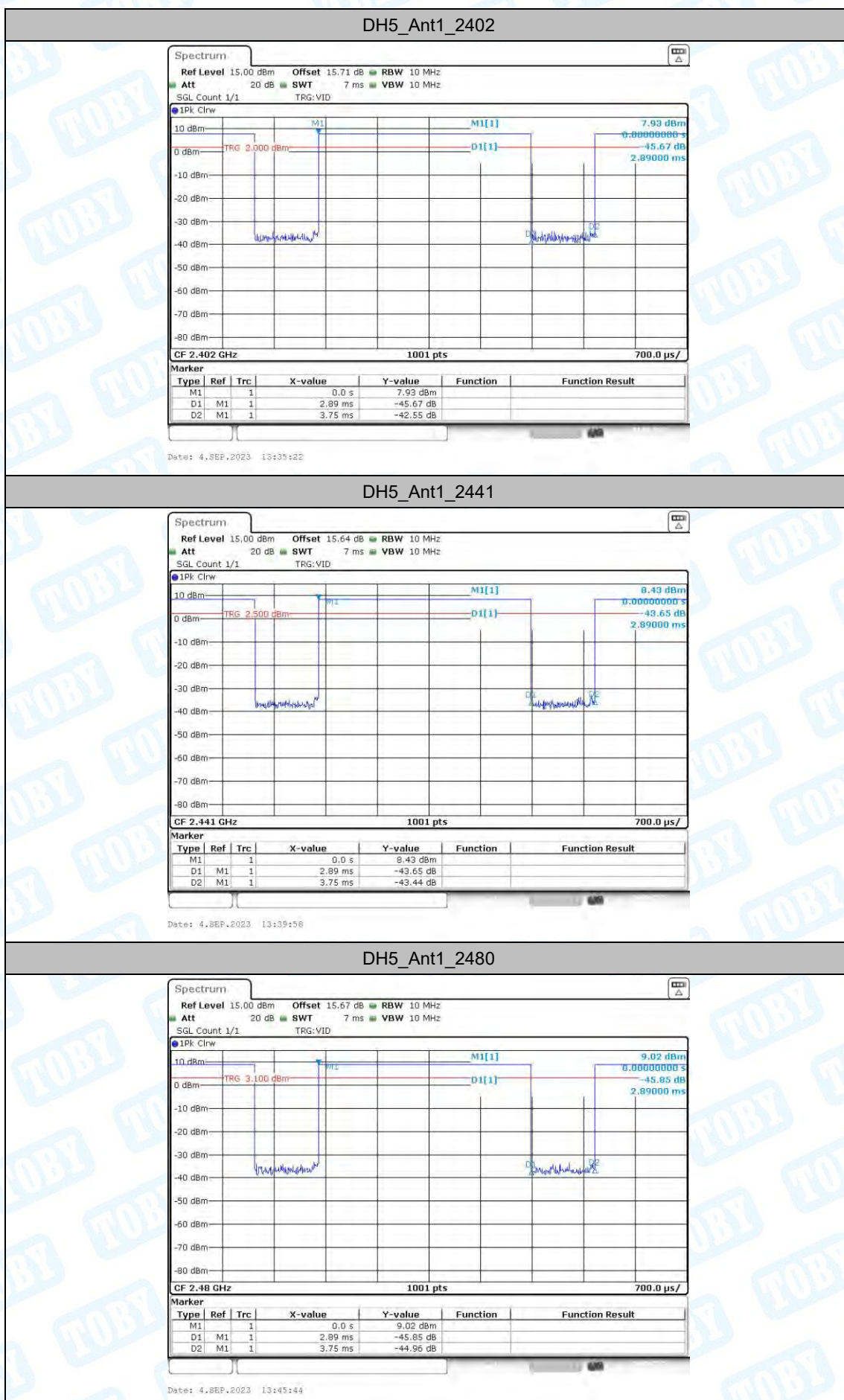


9. Duty Cycle

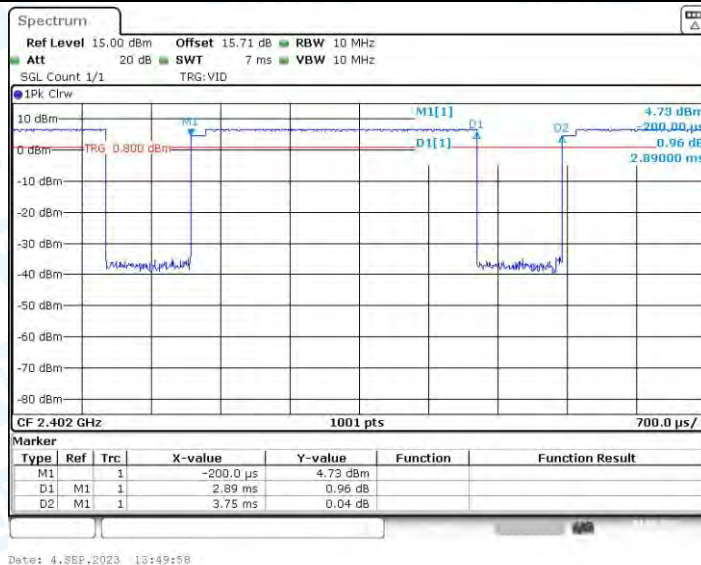
9.1. Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [kHz]	Limit	Verdict
DH5	Ant1	2402	2.89	3.75	77.07	0.346	---	---
		2441	2.89	3.75	77.07	0.346	---	---
		2480	2.89	3.75	77.07	0.346	---	---
2DH5	Ant1	2402	2.89	3.75	77.07	0.346	---	---
		2441	2.90	3.76	77.13	0.345	---	---
		2480	2.89	3.76	76.86	0.346	---	---
3DH5	Ant1	2402	2.89	3.75	77.07	0.346	---	---
		2441	2.89	3.74	77.27	0.346	---	---
		2480	2.90	3.76	77.13	0.345	---	---

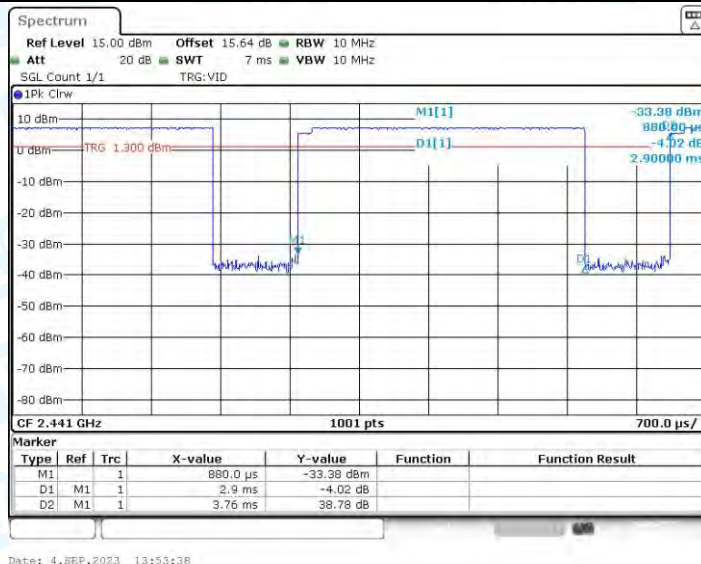
9.2. Test Graphs



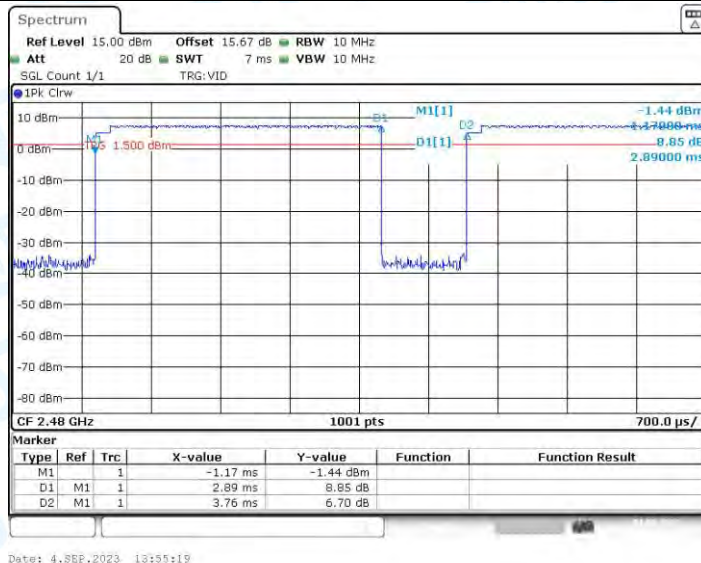
2DH5_Ant1_2402



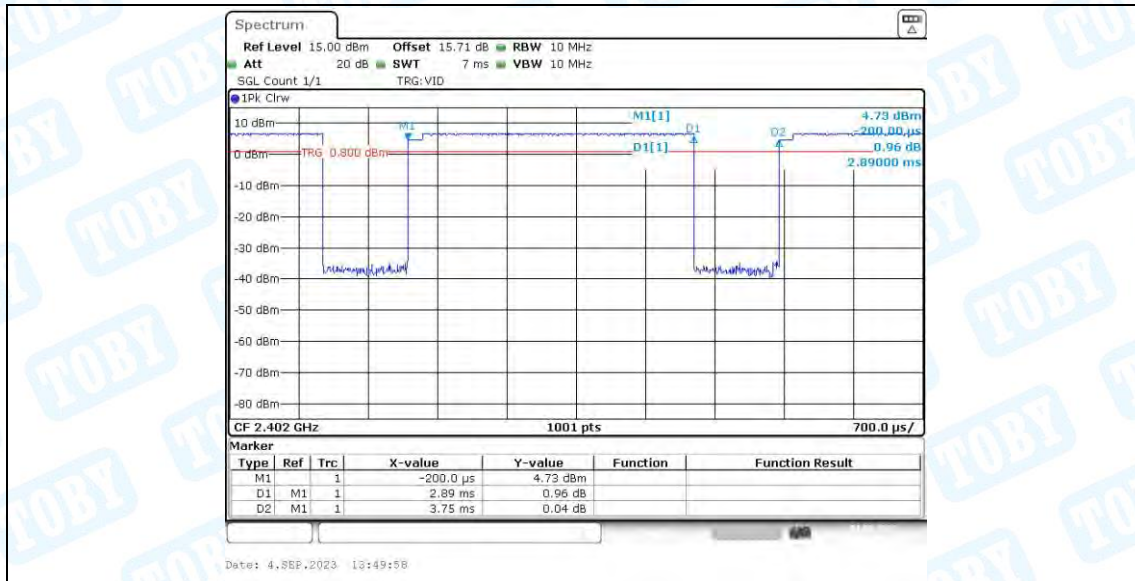
2DH5_Ant1_2441



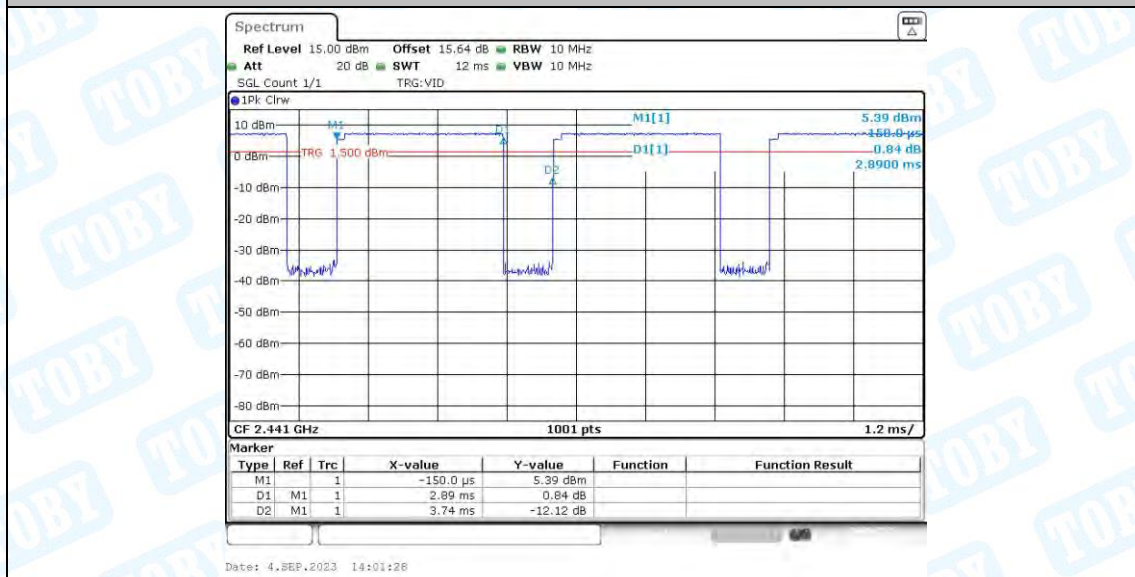
2DH5_Ant1_2480



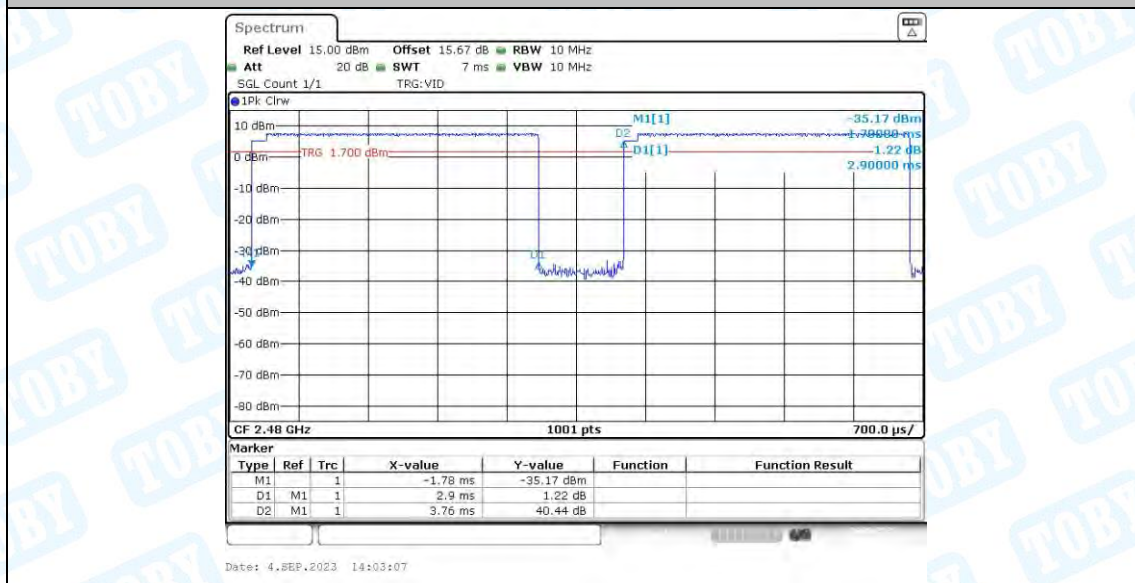
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



10. Emissions in Restricted Bands

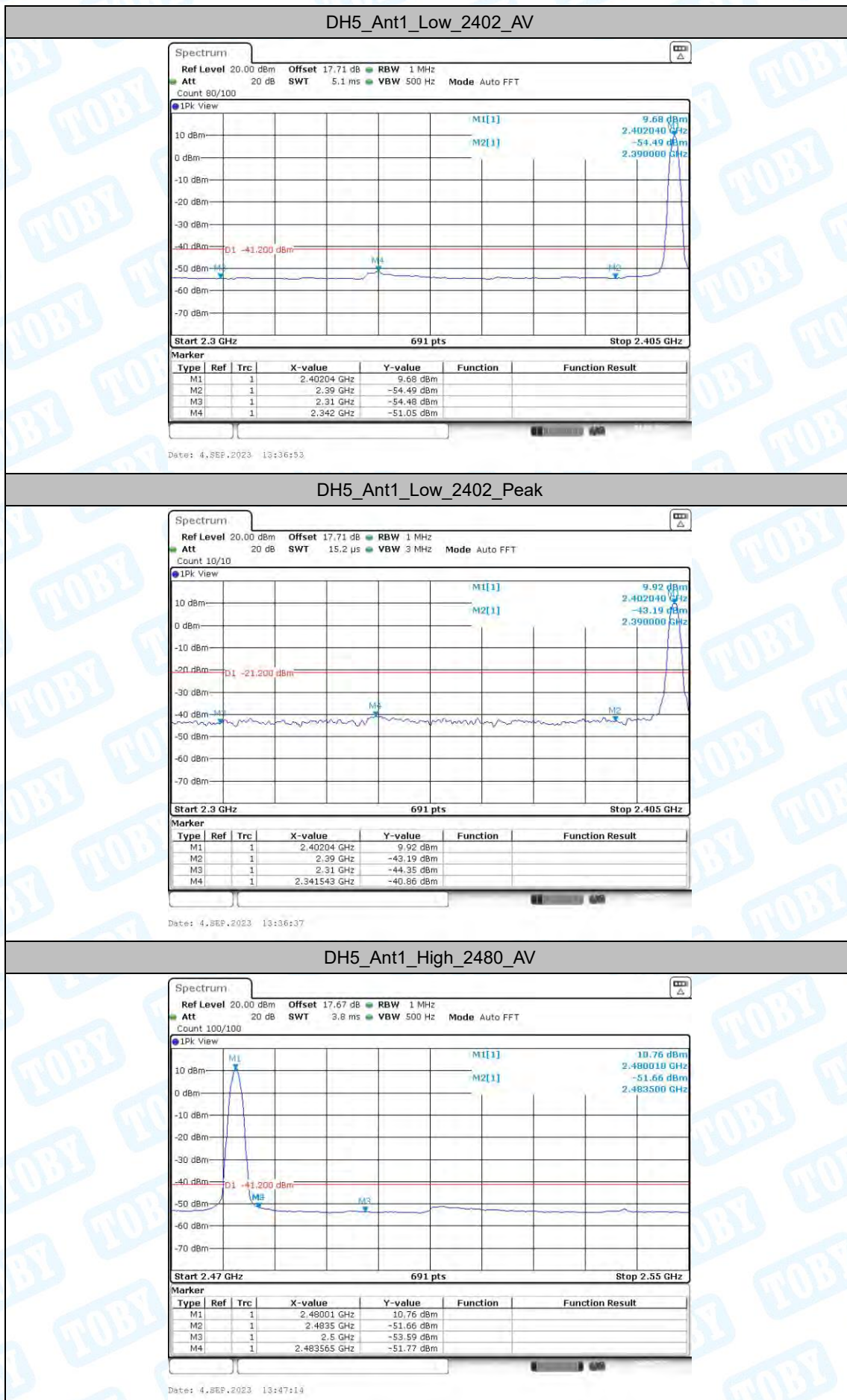
10.1. Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-54.48	≤-41.20	PASS
				AV	2342.000	-51.05	≤-41.20	PASS
				AV	2390.000	-54.49	≤-41.20	PASS
				Peak	2310.000	-44.35	≤-21.20	PASS
				Peak	2341.543	-40.86	≤-21.20	PASS
				Peak	2390.000	-43.19	≤-21.20	PASS
		High	2480	AV	2483.500	-51.66	≤-41.20	PASS
				AV	2483.565	-51.77	≤-41.20	PASS
				AV	2500.000	-53.59	≤-41.20	PASS
				Peak	2483.500	-41.84	≤-21.20	PASS
				Peak	2485.536	-40.78	≤-21.20	PASS
				Peak	2500.000	-42.43	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-54.48	≤-41.20	PASS
				AV	2342.000	-51.5	≤-41.20	PASS
				AV	2390.000	-54.03	≤-41.20	PASS
				Peak	2310.000	-43.7	≤-21.20	PASS
				Peak	2344.283	-39.54	≤-21.20	PASS
				Peak	2390.000	-43.23	≤-21.20	PASS
		High	2480	AV	2483.500	-50.83	≤-41.20	PASS
				AV	2484.493	-50.73	≤-41.20	PASS
				AV	2500.000	-53.22	≤-41.20	PASS
				Peak	2483.500	-41.46	≤-21.20	PASS
				Peak	2487.391	-38.02	≤-21.20	PASS
				Peak	2500.000	-42.99	≤-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-55.09	≤-41.20	PASS
				AV	2341.848	-52.25	≤-41.20	PASS
				AV	2390.000	-54.46	≤-41.20	PASS
				Peak	2310.000	-44.07	≤-21.20	PASS
				Peak	2343.826	-39.58	≤-21.20	PASS
				Peak	2390.000	-42.16	≤-21.20	PASS
		High	2480	AV	2483.500	-50.41	≤-41.20	PASS
				AV	2483.565	-50.51	≤-41.20	PASS
				AV	2500.000	-53.22	≤-41.20	PASS
				Peak	2483.500	-40.36	≤-21.20	PASS
				Peak	2484.609	-38.94	≤-21.20	PASS
				Peak	2500.000	-41.85	≤-21.20	PASS

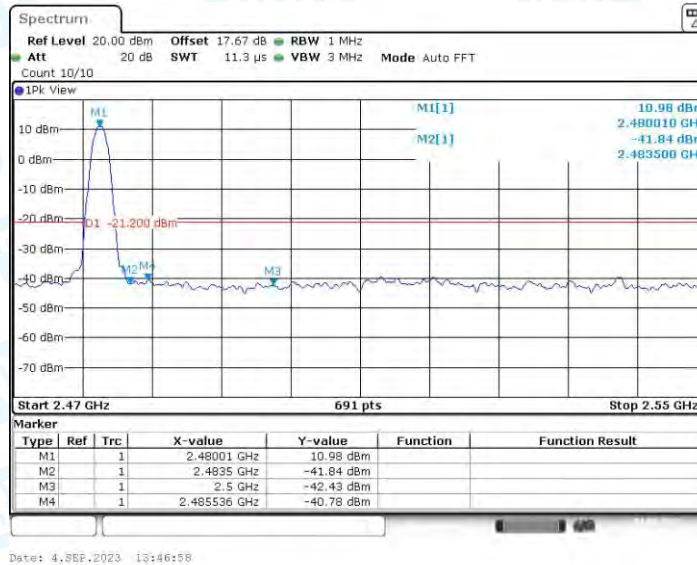
Note:

- The Antenna Gain is compensated in the graph.
- The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm

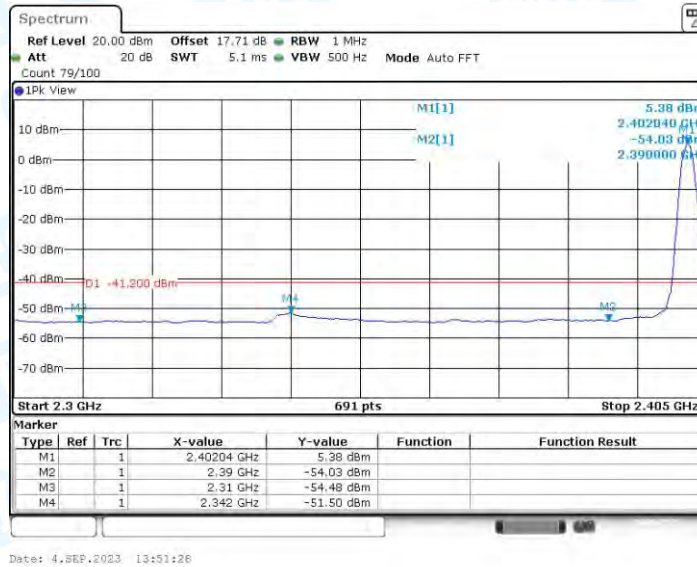
10.2. Test Graphs



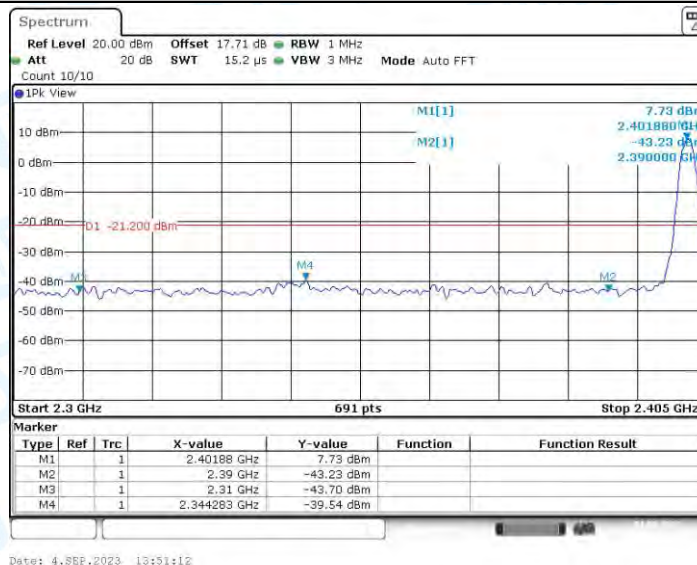
DH5_Ant1_High_2480_Peak



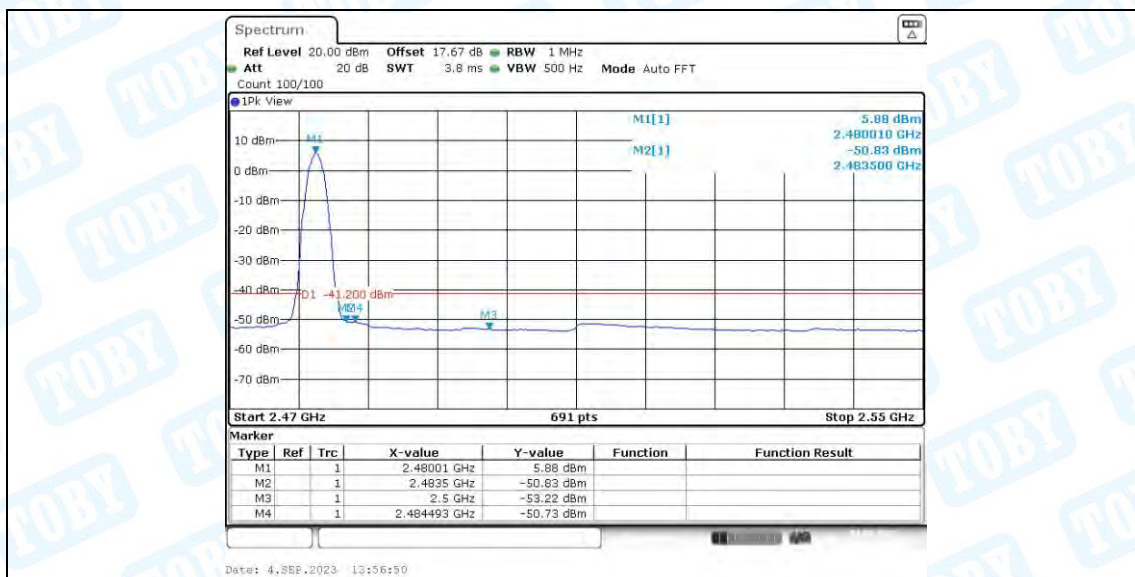
2DH5_Ant1_Low_2402_AV



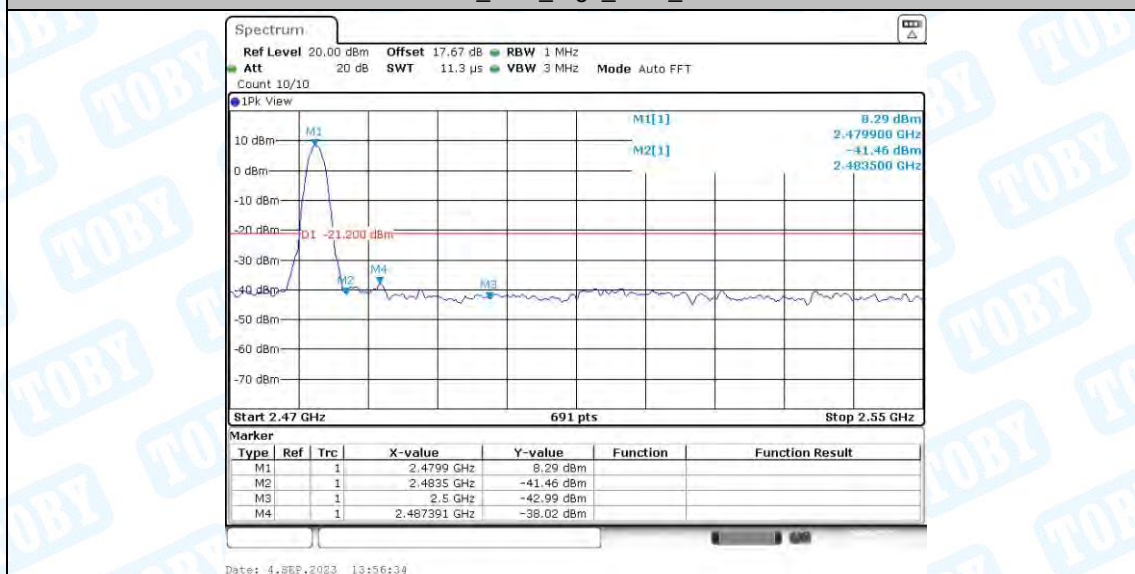
2DH5_Ant1_Low_2402_Peak



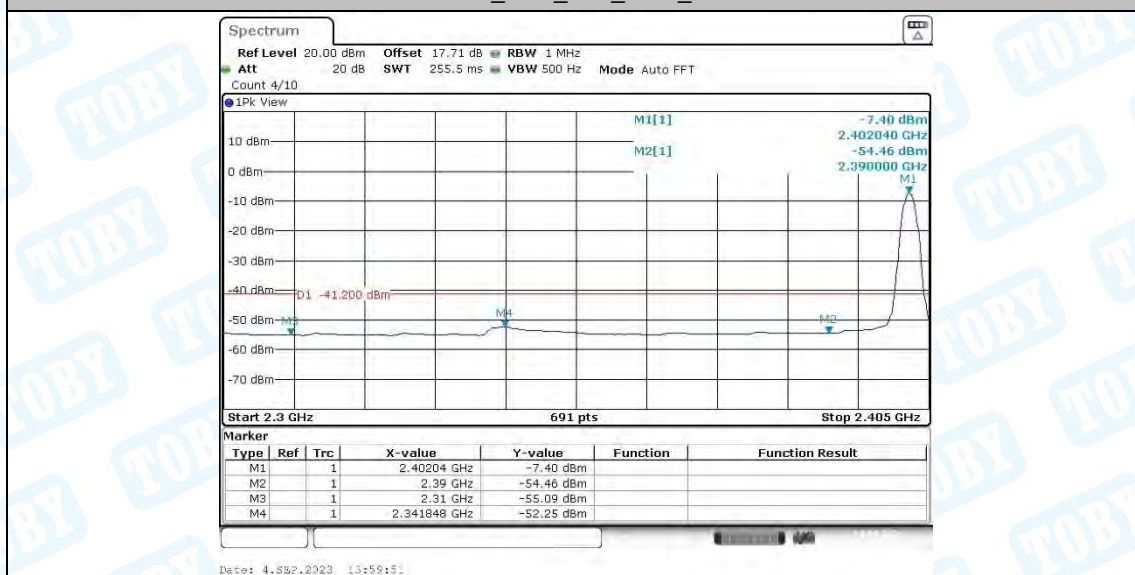
2DH5_Ant1_High_2480_AV



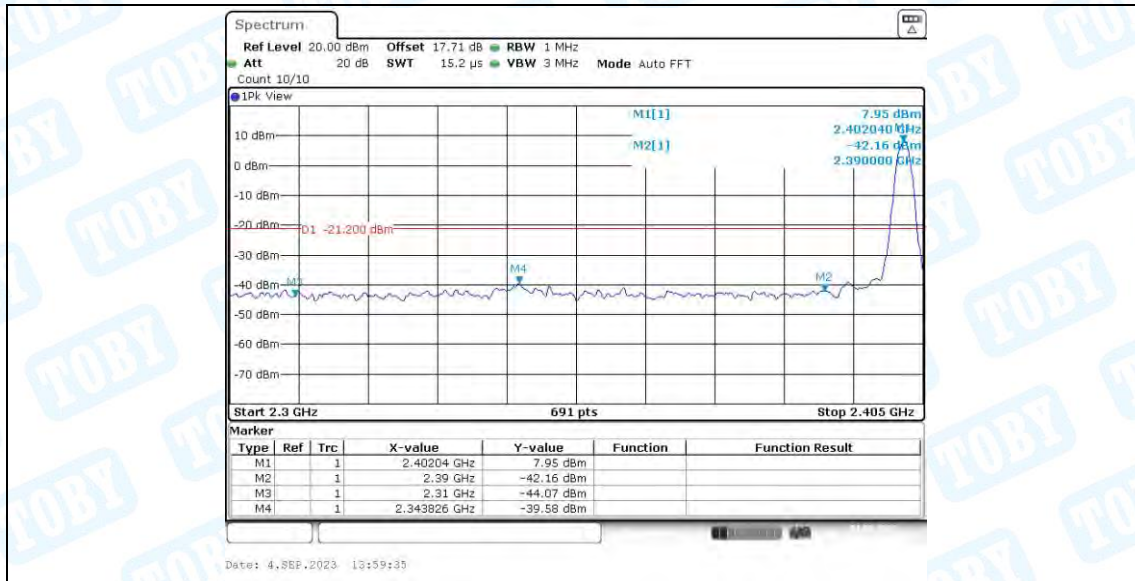
2DH5_Ant1_High_2480_Peak



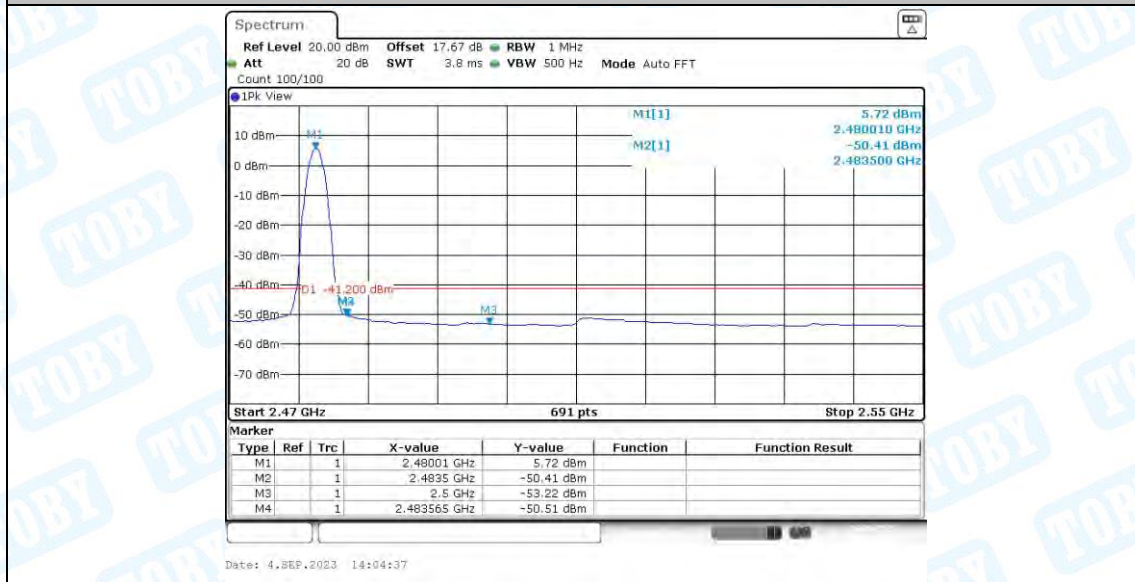
3DH5_Ant1_Low_2402_AV



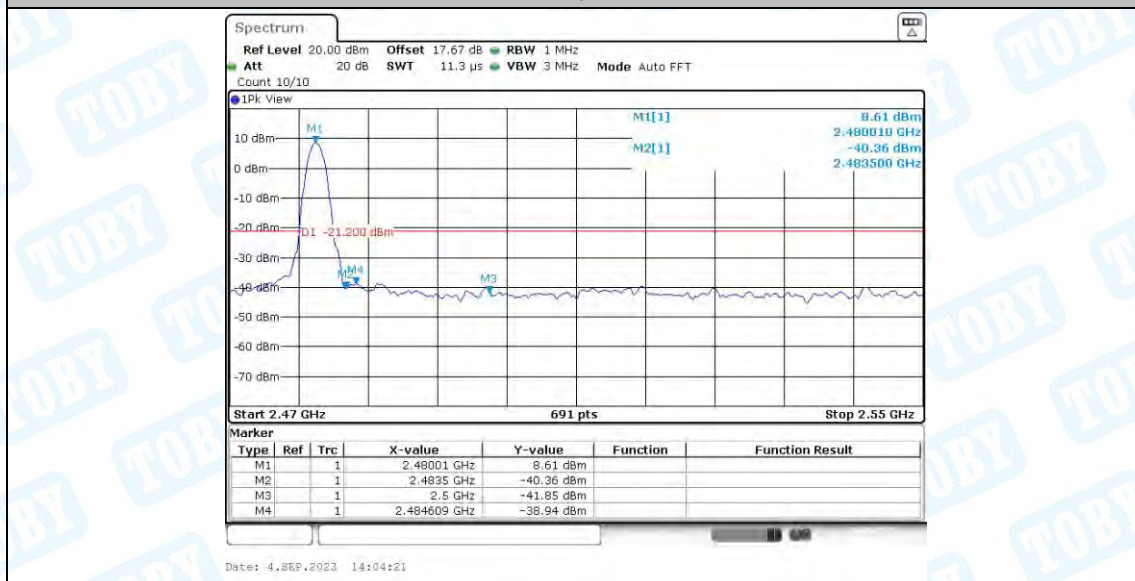
3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak



-----End of the report-----